

ACADEMIC LIVE PROJECTS 2022-23

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G R O U P

COMPUTER SCIENCE

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CSE-Latest-Titles

S.No	Project Code	Project Name	Objective
1	TCPGPY407	Certificateless Elliptic Curve Aggregate Signcryption Scheme (Python / Cloud Computing)	Elliptic curve algorithm is implemented here for the secure data sharing
2	TCMAPY755	Certificateless Elliptic Curve Aggregate Signcryption Scheme (Python / Cloud Computing)	Elliptic curve algorithm is implemented here for the secure data sharing
3	TCPGPY408	Data Security and Privacy Protection for Cloud Storage: A Survey (Python / Cloud Computing)	Identity based encryption techniques is used here for the data security.
4	TCMAPY756	Data Security and Privacy Protection for Cloud Storage: A Survey (Python / Cloud Computing)	Identity based encryption techniques is used here for the data security.
5	TCPGPY409	DSAS: A Secure Data Sharing and Authorized Searchable Framework for e-Healthcare System. (Python / Cloud Computing)	Here the different data security techniques are used for the data protection in the cloud environment.
6	TCMAPY757	DSAS: A Secure Data Sharing and Authorized Searchable Framework for e-Healthcare System. (Python / Cloud Computing)	Here the different data security techniques are used for the data protection in the cloud environment.
7	TCPGPY410	Efficient Identity-Based Public Integrity Auditing of Shared Data in Cloud Storage With User Privacy Preserving (Python / Cloud Computing)	The main objective of the project is to audit the shared data in cloud storage using privacy preserving process.
8	TCMAPY758	Efficient Identity-Based Public Integrity Auditing of Shared Data in Cloud Storage With User Privacy Preserving (Python / Cloud Computing)	The main objective of the project is to audit the shared data in cloud storage using privacy preserving process.
9	TCPGPY411	ESVSSE: Enabling Efficient, Secure, Verifiable Searchable Symmetric Encryption (Python / Cloud Computing)	The main objective of the project is to enable, secure and verify the encryption process using symmetric process.
10	TCMAPY759	ESVSSE: Enabling Efficient, Secure, Verifiable Searchable Symmetric Encryption (Python / Cloud Computing)	The main objective of the project is to enable, secure and verify the encryption process using symmetric process.
11	TCPGPY412	Forward Secure Public Key Encryption with Keyword Search for Outsourced Cloud Storage (Python / Cloud Computing)	The aim of this process is to solve the problems of inefficiency, key abuse and inflexibility of access control policy for data privacy protection and sharing based on block chain.
12	TCMAPY760	Forward Secure Public Key Encryption with Keyword Search for Outsourced Cloud Storage (Python / Cloud Computing)	The aim of this process is to solve the problems of inefficiency, key abuse and inflexibility of access control policy for data privacy protection and sharing based on

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S.No	Project Code	Project Name	Objective
			block chain.
13	TCPGPY413	PKE-MET: Public-Key Encryption with Multi-Cipher text Equality Test in Cloud Computing (Python / Cloud Computing)	The main object of the project is to provide public key, multi-Cipher text quality in cloud computing.
14	TCMAPY761	PKE-MET: Public-Key Encryption with Multi-Cipher text Equality Test in Cloud Computing (Python / Cloud Computing)	The main object of the project is to provide public key, multi-Cipher text quality in cloud computing.
15	TCPGPY414	Publicly Verifiable and Efficient Fine-Grained Data Deletion Scheme in Cloud Computing (Python / Cloud Computing)	The main objective of the project is to propose a data deletion scheme using publicly verifiable scheme.
16	TCMAPY762	Publicly Verifiable and Efficient Fine-Grained Data Deletion Scheme in Cloud Computing (Python / Cloud Computing)	The main objective of the project is to propose a data deletion scheme using publicly verifiable scheme.
17	TCPGPY415	Secure Data Storage and Sharing Techniques for Data Protection in Cloud Environments: A Systematic Review, Analysis, and Future Directions (Python / Cloud Computing)	Here the different data security techniques are used for the data protection in the cloud environment.
18	TCMAPY763	Secure Data Storage and Sharing Techniques for Data Protection in Cloud Environments: A Systematic Review, Analysis, and Future Directions (Python / Cloud Computing)	Here the different data security techniques are used for the data protection in the cloud environment.
19	TCPGPY416	Trapdoor Privacy in Public Key Encryption with Keyword Search: A Review (Python / Cloud Computing)	The main objective of the project is to provide trapdoor privacy in public key encryption scheme.
20	TCMAPY764	Trapdoor Privacy in Public Key Encryption with Keyword Search: A Review (Python / Cloud Computing)	The main objective of the project is to provide trapdoor privacy in public key encryption scheme.
21	TCPGPY417	SE-ENC A Secure and Efficient Encoding Scheme Using Elliptic Curve Cryptography (Python / Cloud Computing)	The main objective of the project is to encode the files using Elliptical Curve Cryptography technique.
22	TCMAPY765	SE-ENC A Secure and Efficient Encoding Scheme Using Elliptic Curve Cryptography (Python / Cloud Computing)	The main objective of the project is to encode the files using Elliptical Curve Cryptography technique.
23	TCPGPY418	A Modified Hierarchical Attribute-Based Encryption Access Control Method for Mobile Cloud Computing. (Python / Cloud Computing)	The main objective of the project is to create a multi cipher text for authorized use.
24	TCMAPY766	A Modified Hierarchical Attribute-Based Encryption Access Control Method for Mobile Cloud Computing. (Python / Cloud Computing)	The main objective of the project is to create a multi cipher text for authorized use.

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25	TCPGPY419	Division and Replication of Data in Cloud for Optimal Performance and Security. (Python / Cloud Computing)	The main objective of the project is to create division and replication of data to optimize the performance.
26	TCMAPY754	Division and Replication of Data in Cloud for Optimal Performance and Security. (Python / Cloud Computing)	The main objective of the project is to create division and replication of data to optimize the performance.
27	TCPG01	Sentiment Classification from Text Using Deep Learning Algorithm (Python / Machine Learning)	The main objective of this project is to classify the sentimental emotions from text, using BERT algorithm.
28	TCMAPY475	Sentiment Classification from Text Using Deep Learning Algorithm (Python / Machine Learning)	The main objective of this project is to classify the sentimental emotions from text, using BERT algorithm.
29	TCPGPY400	Integration And Mining of Medical Records for Healthcare Services AWS Cloud (Python / Cloud Computing)	In this application, the IoH data produced by patients are often distributed across different departments and contain partial patient privacy. Therefore, it is often a challenging task to effectively integrate or mine the sensitive IoH data without disclosing patient privacy. To tackle this challenge, we develop a novel multi-source medical data integration and mining solution for better healthcare services, named PDFM in Amazon web services.
30	TCMAPY739	Integration And Mining of Medical Records for Healthcare Services AWS Cloud (Python / Cloud Computing)	In this application, the IoH data produced by patients are often distributed across different departments and contain partial patient privacy. Therefore, it is often a challenging task to effectively integrate or mine the sensitive IoH data without disclosing patient privacy. To tackle this challenge, we develop a novel multi-source medical data integration and mining solution for better healthcare services, named PDFM in Amazon web services.
31	TCPGPY401	A Lightweight Policy Update Scheme for Outsourced Personal Health Records Sharing (Python / Cloud Computing)	The objective of this project is to secure the patient's confidential data in cloud by using Encryption technique .Hospital management will provide the data securely to patient.
32	TCPGPY405	A Reliability Guaranteed Solution for data storing and Sharing (Python / Cloud Computing)	The main objective of the project is to provide a security solution for storing and sharing the data.

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S.No	Project Code	Project Name	Objective
33	TCPGPY404	A Cloud Secure Storage Mechanism Based On Data Dispersion and Encryption (Python / Cloud Computing)	The Objective of this project is to Provide security for data from attackers using CSSM(cloud secure storage Mechanism) .To secure data we performing data dispersion, distributed storage to realize encrypted, chunked and distributed storage.
34	TCPGPY403	Comparative Analysis of ML Algorithms for Drought for Prediction (Python / Machine Learning)	The main objective of this project is to perform future forecasting for drought prediction using traditional time series methods as well as latest algorithm too.
35	TCPGPY399	Efficient Revocable Multi-Authority Attribute-Based Encryption for Cloud Storage (Python / Cloud Computing)	The objective of this project is to secure the confidential data in cloud by using Encryption technique ABE (Attribute Based Encryption).It is used to encrypt data .By using ABE Technique data will convert into some random data with the help of keys, only data will be decrypted.
36	TCPGPY397	Anemia Estimation for Patients Using a ML Model (Python / Machine Learning)	The main objective of this project is to create an Effective Detection system for Anemia among individuals and taking necessary treatment in order to get rid from anemia.
37	TCMAPY474	Anemia Estimation for Patients Using a ML Model (Python / Machine Learning)	The main objective of this project is to create an Effective Detection system for Anemia among individuals and taking necessary treatment in order to get rid from anemia.
38	TCMAPY744	Dual access control and sharing control using Amazon web services (Python / Cloud Computing)	The main aim of this project is to provide privacy or security for uploaded data. Dual access for data owners by data owner permission using AWS.
39	TCPGPY398	Dual access control and sharing control using Amazon web services (Python / Cloud Computing)	The main aim of this project is to provide privacy or security for uploaded data. Dual access for data owners by data owner permission using AWS.
40	TCMAPY745	Text and Image Encryption Decryption Using AES Algorithm (Python / Cloud Computing)	The main aim of this application is "To protect and secure relevant information by encrypting and decrypting an image and text using AES algorithm."

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41	TCPGPY395	Text and Image Encryption Decryption Using AES Algorithm (Python / Cloud Computing)	The main aim of this application is "To protect and secure relevant information by encrypting and decrypting an image and text using AES algorithm."
42	TCPGJA554	Text and Image Encryption Decryption Using AES Algorithm (Java / Web Applications)	The main aim of this application is "To protect and secure relevant information by encrypting and decrypting an image and text using AES algorithm."
43	TCPGPY271	Detection of Chronic Kidney Disease using Machine Learning and Deep Learning Algorithms (Python / Machine Learning)	The main objective of this project is to detect the chronic kidney disease detection using machine learning and deep learning algorithms.
44	TCPGPY396	A Survey an Various Data Base Encryption Techniques (Python / Cloud Computing)	Safety of Data is the most significant task in today's world. Over the centuries various encryption schemes have been developed in order to protect the database from various attacks by the intruders. This paper rounds the importance of database encryption and makes an in depth review of various database encryption techniques and compare them on basis of their.
45	TCMAPY301	Deep Learning for Plant Species Classification (Python / Deep Learning)	The main objective of this to classify the different plant species using Convolution Neural Network (CNN) of deep learning.
46	TCMAPY240	Classification of Poetry Text Into the Emotional States Using Deep Learning Technique (Python / Deep Learning)	The objective of this project is to define an approach that classifies the text of poetry into different emotional states like love, joy, hope, sadness, anger, etc.
47	TCMAPY206	Transfer Learning for Recognizing Face in Disguise (Python / Deep Learning)	In this paper, we aim to test some popular Convolutional Neural Network (CNN) Model Architecture to see which one is better to recognize the person face dataset in disguised. Here, we use the "Recognizing Disguised Faces" dataset to distinguish 75 classes of faces, and then try to train and test how accurate it can be recognized by the machine.

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S.No	Project Code	Project Name	Objective
		(Python / Deep Learning)	satellite data for LU/LC (land use, Land change) classification. Forests degradation and deforestation aggravate global warming, and the LULC information found from satellite data is now very essential for global environmental conservation and ecosystem. The major contribution of work is inaugurating the remote sensing techniques in spatiotemporal analysis of land use changes and detecting deforestation, forest degradation, and monitoring forest dynamics in Amazon rainforests.
49	TCMAPY245	Traffic Prediction for Intelligent Transportation System using Machine Learning (Python / Artificial Intelligence)	This project aims to develop a tool for predicting accurate and timely traffic flow Information. In this work we use machine learning, genetic, soft computing and deep learning algorithms to analyze the big-data for the transportation system with much reduced complexity.
50	TCMAPY278	Transfer Learning Code Vectorizer based Machine Learning Models for Software Defect Prediction (Python / Artificial Intelligence)	In this paper, we propose Transfer Learning Code Vectorizer, a novel method that derives features from the text of the software source code itself and uses those features for defect prediction. Here, we mainly focus on the software code and to convert it into vectors using a pre-trained deep learning language model.
51	TCMAPY288	Single Image Deraining Using Bilateral Recurrent Network (Python / Data Science)	In this approach we first propose a single recurrent network (SRN) by recursively unfolding a shallow residual network, for extracting rain streaks and also for learning direct mapping for predicting clean background image. Then, we propose bilateral LSTMs, which not only can respectively propagate deep features of rain streak layer and background image layer across stages, but also bring the interplay between these two SRNs, finally forming bilateral recurrent network (BRN).

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		Malware Recognition Based On Semantic Behaviours (Python / Deep Learning)	and reduce the threat of malicious programs (malware), we proposed a novel approach for detection of malware which uses a combination of CNN and LSTM in conjunction with NLP.
53	TCMAPY746	Secure Outsourcing and Sharing of Cloud Data Using a User-Side Encrypted File System (Python / Cloud Computing)	Cloud computing is an emerging paradigm that aims to provide computing resources, massive data storage capacity and, flexible data sharing services. Our goal of this project is to introduce OutFS, a user-side encrypted file system, focused on providing a transparent encryption for stored and shared outsourced data.
54	TCPGPY392	Secure Outsourcing and Sharing of Cloud Data Using a User-Side Encrypted File System (Python / Cloud Computing)	Cloud computing is an emerging paradigm that aims to provide computing resources, massive data storage capacity and, flexible data sharing services. Our goal of this project is to introduce OutFS, a user-side encrypted file system, focused on providing a transparent encryption for stored and shared outsourced data.
55	TCMAPY747	Cost-efficient Outsourced Decryption of Attribute Based Encryption Schemes for Both Users and Cloud Server in Green Cloud Computing (Python / Cloud Computing)	The main objective of this project "To reduce the total overhead of the cloud server for outsourced decryption of ABE scheme besides decreasing the user's overhead of the decryption of ABE scheme when many users submit the outsourced decryption service to the cloud server."
56	TCPGPY394	Cost-efficient Outsourced Decryption of Attribute Based Encryption Schemes for Both Users and Cloud Server in Green Cloud Computing (Python / Cloud Computing)	The main objective of this project "To reduce the total overhead of the cloud server for outsourced decryption of ABE scheme besides decreasing the user's overhead of the decryption of ABE scheme when many users submit the outsourced decryption service to the cloud server."
57	TCPGJA509	Cost-efficient Outsourced Decryption of Attribute Based Encryption Schemes for Both Users and Cloud Server in Green Cloud Computing (Java / Cloud Computing)	The main objective of this project "To reduce the total overhead of the cloud server for outsourced decryption of ABE scheme besides decreasing the user's overhead of the decryption of ABE scheme when many users submit the outsourced

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			decryption service to the cloud server.”
58	TCPGPY390	Deep Learning For Large-Scale Traffic-Sign Detection And Recognition (Python / Deep Learning)	In this project, we propose several improvements that are evaluated on the detection of traffic signs and result in an improved overall performance. We adopt a Convolutional Neural Network (CNN) approach, the mask R-CNN to address the full pipeline of detection and recognition with automatic end-to-end learning.
59	TCPGPY389	Machine Learning Algorithm For Brain Stroke Detection (Python / Machine Learning)	The purpose of this paper is to develop an automated early ischemic brain stroke detection system using CNN deep learning algorithm.
60	TCPGPY388	Rice Leaf Diseases Classification Using Cnn With Transfer Learning (Python / Deep Learning)	The objective of this project is to create our own dataset of small in size and develop deep learning model using transfer learning to classify the rice leaf disease.
61	TCPGPY386	Animal Detection in Farms Using OpenCV (Python / Deep Learning)	We propose an AI based system which helps in detecting and identifying the animal which tries to enter the field and alerts the farmer to take certain actions further.
62	TCPGPY385	Detecting and Characterizing Extremist Reviewer Groups in Online Product Reviews (Python / Machine Learning)	In this application, we discussed an unexplored form of opinion spam, where spammers target brands as a whole, posting extreme reviews, to change the overall sentiment about the brand. These groups are often part of a complex business web that is capable of influencing the overall popularity and reputation of several brands on review websites.
63	TCMAPY748	Multi-authority Access Control with Anonymous Authentication for Personal Health Record (Python / Cloud Computing)	In this project, a patient-centric PHR sharing framework is proposed. In which all PHRs are protected with multi-authority attribute-based encryption before outsourcing, which solves the key hosting problem and achieves fine-grained access control to PHRs. With the help of this application, privacy of patients is protected and patients can control their PHRs.

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		Authentication for Personal Health Record (Python / Cloud Computing)	sharing framework is proposed. In which all PHRs are protected with multi-authority attribute-based encryption before outsourcing, which solves the key hosting problem and achieves fine-grained access control to PHRs. With the help of this application, privacy of patients is protected and patients can control their PHRs.
65	TCMAPY749	A Categorization of Cloud-Based Services and their Security Analysis in the Healthcare Sector (Python / Cloud Computing)	The main objective of this project to achieve security and risk assessment issues in cloud-based services and also to offer an eye catching categorization of cloud benefits and threats in the healthcare sector providing many important tools and applications.
66	TCPGPY383	A Categorization of Cloud-Based Services and their Security Analysis in the Healthcare Sector (Python / Cloud Computing)	The main objective of this project to achieve security and risk assessment issues in cloud-based services and also to offer an eye catching categorization of cloud benefits and threats in the healthcare sector providing many important tools and applications.
67	TCMAPY750	Privacy Preserving Multi Keyword Searchable Encryption for Distributed Systems (Python / Cloud Computing)	The main aim of this project is to provide privacy or security for supporting multi-keyword search under the multi-user setting, hiding search pattern, access pattern and resisting keyword guessing attacks (KGA). Which are the most challenging tasks. Hence, we present a new searchable encryption scheme that addresses the above problems simultaneously, which makes it practical to be adopted in distributed systems.
68	TCPGPY382	Privacy Preserving Multi Keyword Searchable Encryption for Distributed Systems (Python / Cloud Computing)	The main aim of this project is to provide privacy or security for supporting multi-keyword search under the multi-user setting, hiding search pattern, access pattern and resisting keyword guessing attacks (KGA). Which are the most challenging tasks. Hence, we present a new searchable encryption scheme that addresses the above problems simultaneously, which makes it practical to be adopted in distributed systems.

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69	TCMAPY751	Group Key Management Protocol for File Sharing on Cloud Storage (Python / Cloud Computing)	In this project, we are proposing the Group Key Management Protocol for file sharing on cloud storage (GKMP). This helps in achieving the authentication scheme which is used to prevent the shared files from being attacked by a combination of cloud providers and group members.
70	TCPGPY381	Group Key Management Protocol for File Sharing on Cloud Storage (Python / Cloud Computing)	In this project, we are proposing the Group Key Management Protocol for file sharing on cloud storage (GKMP). This helps in achieving the authentication scheme which is used to prevent the shared files from being attacked by a combination of cloud providers and group members.
71	TCPGPY380	Handwritten Character Recognition System (Python / Deep Learning)	In this project we are designing a image segmentation based Handwritten character recognition system using deep neural networks.
72	TCMAPY210	Deep Analysis of Autism Spectrum Disorder Detection Techniques. (Python / Machine Learning)	The aim of this project is to find out the most significant traits and automate the diagnosis of Autism Spectrum Disorder using available machine learning classification techniques for improved diagnosis purpose. At final, we compare accuracy of various machine learning algorithms for early autism detection.
73	TCMAPY230	Classification of Electromyographic Hand Gesture Signals Using Modified Fuzzy C-Means Clustering and Two-Step Machine Learning Approach (Python / Deep Learning)	In this project we aim to detect and recognize the hand finger gestures representing different fingers of a person, using EMG signals as an input to classify hand gestures.
74	TCPGPY379	Multi-Source Medical Data Integration And Mining For Healthcare Services (Python / Cloud Computing)	In this project we put forward a novel multi-source medical data integration and mining solution for better healthcare services, named PDFM (Privacy-free Data Fusion and Mining). Through PDFM, we can search for similar medical records in a time-efficient and privacy-preserving manner, so as to offer patients with better medical and health services.
(Page 10)	TCPGPY378	Fraud Detection in Credit Card Data using Unsupervised Machine Learning Based	This paper proposes a scheme for detecting frauds in credit card data

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		Scheme (Python / Machine Learning)	which uses a Neural Network (NN) based unsupervised learning technique. Our method outperforms the existing approaches of Auto Encoder (AE), Local Outlier Factor (LOF), Isolation Forest (IF) and K-Means clustering.
76	TCPGPY377	Deep Convolution Neural Network for Big Data Medical Image Classification (Python / Deep Learning)	The objective of this project is to propose a novel deep convolution network-based approach that is assist of doctors and physicians in making reasonable decisions. And to exhibit that this method is best suited to classify various medical images for various body organs.
77	TCMAPY752	A Secure Data Dynamics and Public Auditing Scheme for Cloud Storage (Python / Cloud Computing)	The main aim of the project is to achieve a secure public auditing scheme applying third party auditors to authenticate the privacy, reliability, and integrity of data stored in the cloud. This proposed auditing scheme composes the use of the AES-256 algorithm for encryption, SHA-512 for integrity check and RSA-15360 for public key encryption. And perform data dynamics operation which deals with mostly insertion, deletion, and, modification.
78	TCPGPY376	A Secure Data Dynamics and Public Auditing Scheme for Cloud Storage (Python / Cloud Computing)	The main aim of the project is to achieve a secure public auditing scheme applying third party auditors to authenticate the privacy, reliability, and integrity of data stored in the cloud. This proposed auditing scheme composes the use of the AES-256 algorithm for encryption, SHA-512 for integrity check and RSA-15360 for public key encryption. And perform data dynamics operation which deals with mostly insertion, deletion, and, modification.
79	TCMAPY753	Derepo: A Distributed Privacy-Preserving Data Repository with Decentralized Access Control for Smart Health (Python / Cloud Computing)	This project aims to create a novel data repository named Derepo to address the security and privacy issues of the medical data by securing the storage with the decentralized access control mechanism and preserving privacy via the homomorphic encryption scheme.

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80	TCPGPY375	Derepo: A Distributed Privacy-Preserving Data Repository with Decentralized Access Control for Smart Health (Python / Cloud Computing)	This project aims to create a novel data repository named Derepo to address the security and privacy issues of the medical data by securing the storage with the decentralized access control mechanism and preserving privacy via the homomorphic encryption scheme.
81	TCPGPY374	Secure Data Transfer and Deletion from Counting Bloom Filter in Cloud Computing (Python / Cloud Computing)	The main aim of this project is to achieve secure data transfer and also absorbs permanent data deletion. In addition, the proposed scheme satisfies public certification without the need for a trusted third party. Here we build a new counting bloom filter-based scheme.
82	TCPGPY373	Dual Access control for Cloud Based Data Storage and Sharing (Python / Cloud Computing)	This project aims to create a Privacy Enabled and Secured Cloud Project deployed in AMAZON WEB SERVICES (AWS). Services offered are Privacy, Encryption and Decryption, hindering Denial of Sustainability attacks.
83	TCPGPY372	A Verifiable Semantic Searching Scheme by Optimal Matching Over Encrypted Data in Public Cloud (Python / Cloud Computing)	The main objective of this project is "To provide retrieval service to arbitrary words so that queries and search results are flexible. So, it provides verifiability and confidentiality towards security analysis."
84	TCPGPY371	Research on Medical Image Classification Based on Machine Learning (Python / Deep Learning)	In this paper, we propose a new method for CT pathological image analysis of brain and chest to extract image features and classify images. A semi supervised learning based image classification method is proposed using Deep Neural Network.
85	TCPGPY369	Electricity Price Forecasting for Cloud Computing Using an Enhanced Machine Learning Model (Python / Machine Learning)	In this project, we propose an Extreme Gradient Boosting (XGBoost) model to offload or move storage, predict electricity price. As a result reducing energy consumption costs in data centers. The performance of this method is evaluated on a real-world dataset.
(Page 12)	TCPGPY368	Image Denoising via Sequential Ensemble Learning (Python / Deep Learning)	This paper mainly aims at investigating the application of ensemble learning in image

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			denoising, we combine a set of simple base denoisers to form a more effective image denoiser. Based on different types of image priors, two types of base denoisers in the form of transform-shrinkage are proposed for constructing the ensemble.
87	TCPGPY367	Analysis for Disease Gene Association Using Machine Learning (Python / Machine Learning)	In this project, we propose and analyze a novel computational methods for the identification of genes associated with diseases using Machine Learning techniques.
88	TCPGPY365	A Novel Ensemble Learning Paradigm for Medical Diagnosis With Imbalanced Data (Python / Machine Learning)	The aim of this study is to propose a novel ensemble learning paradigm for medical diagnosis that performs at the same level or better than the other state-of-the-art comparison methods.
89	TCMAPY161	Covid-19 predictor using X-Ray Images Analysis (Python / Deep Learning)	Here we are developing an application for detection of patients with COVID-19 from their chest radiography images using deep learning models. To perform this operation, the Chest X-rays from the publicly available datasets are considered.
90	TCMAPY182	A Smart IoT enabled Air Pollution Detector using Machine Learning (Python / Machine Learning)	In this paper we have proposed the application of Internet of Things and Machine learning so that air pollution can be monitored within future smart cities. An IoT sensor array is connected to the system, which can analyze the data using machine learning algorithms.
91	TCMAPY193	Image Caption Generator with CNN & LSTM (Python / Artificial Intelligence)	From this project, we build an application which automatically generates natural language captions of the image based on the content in the given image using Convolution Neural Network (CNN) for feature extraction and Long Short Term Memory (LSTM) for generating the captions. Which then can be utilized for indexing and searching of images, tagging in social media, helping the visually impaired etc.
92	TCMAPY168	COVID-19 Monitor (Python / Artificial Intelligence)	In this project we are developing a deep learning based model for

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			Mask Detector with Python. The project helps us to notify if someone is wearing a mask or not. As, WHO has made a compulsion on wearing masks to protect against the deadly COVID-19 virus.
93	TCMAPY180	Emotion Recognition using Speech Processing (Python / Deep Learning)	In this project, we collect the different methodologies that which process and classify speech signals and detect the emotions from the speech signals as emotions play vital role in communications. Here, the emotions are detected from a person or through a speaker.
94	TCMAPY170	Noise Suppressed Image Enhancing Environment (Python / Deep Learning)	In this project we propose an application which enhance black and white images to color format for better visibility and analysis by which we can restore the old and damaged photos that suffered from severe degradation with the help of deep learning approach.
95	TCMAPY303	Construction of Machine-Labeled Data for Improving Named Entity Recognition by Transfer Learning (Python / Machine Learning)	In this paper, we propose a method for automatically generating training data and effectively using the generated data to reduce the labeling cost. The effect of our proposed method was verified with two versions of DNN-based named entity recognition (NER) models: bidirectional LSTM-CRF and vanilla BERT. Where the proposed NER systems outperform the baseline systems in both languages without the need for additional manual labeling.
96	TCMAPY293	Image Reconstruction: From Sparsity to Data-Adaptive Methods and Machine Learning (Python / Machine Learning)	The objective of this project is to focus on the two most recent trends in medical image reconstruction that is methods based on scarcity or low-rank models and data-driven methods based on machine learning techniques.
97	TCMAPY279	A Comparative Approach to Predictive Analytics with Machine Learning for Fraud Detection of Realtime Financial Data (Python / Machine Learning)	In this project, we are comparing predictive analytics with machine learning techniques for fraud detection in real-time financial data. Although predictive analytics and machine learning uses some of the same algorithms, predictive analytics in certain cases can

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			outperform machine learning since it is designed specifically for the task in hand.
98	TCMAPY276	CLEMENT: Machine Learning Methods for Malware Recognition Based on Semantic Behaviours (Python / Machine Learning)	To fight against malware attacks in the modern world which heavily relies on software and internet, we propose a novel approach for detection of malware which uses a combination of CNN and LSTM in conjunction with NLP.
99	TCMAPY243	An Experimental Study for Software Quality Prediction with Machine Learning Methods (Python / Machine Learning)	In the proposed model, Machine learning algorithms such as Xgboost, Random Forest and Decision Tree are applied to the data to predict the software quality and reveal the relation between the quality and development attributes. At final, the experimental results show that the quality level of software can be well estimated by machine learning algorithms.
100	TCMAPY201	Hazard Identification and Detection using Machine Learning Approach (Python / Machine Learning)	In this proposed model, we design a new classification system to analyze and detect the malicious web pages using machine learning classifiers such as, random forest, support vector machine. Naive Bayes, logistic regression and Some special URL (Uniform Resource Locator) based on extricated features the classifiers are trained to predict the malicious web pages.
101	TCMAPY198	Predicting Flight Delays with Error Calculation using Machine Learned Classifiers (Python / Machine Learning)	In this project, we are using machine learning algorithms to predict the arrival of a particular flight will be delayed or not. As, flight delay is a major hurdle for airlines which depends on razor thin profit margins and for passengers as well.
102	TCMAPY194	Machine Learning based Rainfall Prediction (Python / Machine Learning)	This paper proposes a rainfall prediction model using machine learning models such as Multiple Linear Regression (MLR) for considered dataset. The input data is having multiple meteorological parameters and to predict the rainfall in more precise.
103	TCMAPY310	Deep Learning Based Fusion Approach for Hate Speech Detection (Python / Deep Learning)	The objective of this project is to present the principle of three types of text classification methods.

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			ELMo, BERT and CNN, and applied them to hate speech detection, then the performance is improved by fusion from two perspectives: the fusion of the classification results of ELMo, BERT and CNN, and the fusion of the classification results of three CNN classifiers with different parameters.
104	TCMAPY284	Analysis of Facial Sentiments: A Deep-learning Way (Python / Deep Learning)	Here, our application introduces a Convolutional Neural Network (CNN) implemented architecture to detect the sentiment of a person using facial and visual clues. Such a system can be used to moderate content based on the sentiment of the person. This application is highly useful in modern world where we rely on video calls more and more.
105	TCMAPY259	Image-Based Plant Disease Detection: A Comparison of Deep Learning and Classical Machine Learning Algorithms (Python / Deep Learning)	This paper presents deep learning approach with the classical machine learning algorithms for detecting the plant disease in the early stages using image based plant dataset. This can prevent without destroying the whole crop.
106	TCMAPY257	Learning Deep Gradient Descent Optimization for Image Deconvolution (Python / Deep Learning)	In this project, We propose a Recurrent Gradient Descent Network (RGDN) by systematically incorporating deep neural networks into a fully parameterized gradient descent scheme that which can enhance the blurred image to the clean image. The proposed deep optimization method is effective and robust to produce favorable results as well as practical for real-world image deblurring applications.
107	TCMAPY252	Deep Learning in Ultrasound Imaging (Python / Deep Learning)	In this study we aim to provide the reader with a broad understanding of the possible impact of deep learning on a variety of ultrasound imaging aspects, placing particular emphasis on methods that exploit both the power of data and signal structure (for instance sparsity in some domain) to yield robust and data efficient solutions.
108	TCMAPY249	Evaluation of Deep Learning Techniques in Sentiment Analysis from Twitter Data (Python / Deep Learning)	In the proposed sentiment analysis using deep learning algorithms such as,

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S.No	Project Code	Project Name	Objective
			Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN) and Natural Language Processing (NLP). For this analysis we are using twitter dataset. Additionally, we compare different word embedding systems such as the Word2Vec and the global vectors for word representation (GloVe) models.
109	TCMAPY229	Deep Facial Diagnosis: Deep Transfer Learning From Face Recognition to Facial Diagnosis (Python / Deep Learning)	Being able to predict disease based on facial images is an important field. Such an application can provide millions of people to get diagnosed for cheap. In this project, we propose a Neural Network based method to take 2D facial images and to predict diseases (most likely dermatology diseases) from them.
110	TCMAPY221	On the Feasibility of Deep Learning in Sensor Network Intrusion Detection (Python / Deep Learning)	Our goal is to predict the solution for wireless sensor network by using intrusion detection system (IDS) is a solution to this problem. It analyzes the network by collecting sufficient amount of data and detects abnormal behavior of sensor node(s). IDS based security mechanisms proposed for other network paradigms such as ad hoc networks, cannot directly be used in WSNs.
111	TCMAPY218	Deep Learning for Natural Language Parsing (Python / Deep Learning)	In this application we present a deep learning based architecture for a natural language parser, and investigating the qualities of our parser by using a multi-lingual dependency parser using advanced deep learning techniques.
112	TCMAPY211	Deep learning for Classification and Localization of COVID-19 Markers in point-of-care Lung Ultrasound (Python / Deep Learning)	Based on lung ultrasonography (LUS) images our app should identify whether a person got infected with CORONAVIRUS, based on which medication should be recommended. Such an app could be helpful in detecting CORONAVIRUS faster and hence faster treatment can be provided to the user.
(Page 17) 113	TCMAPY207	Transfer learning-based Object Detection by using Convolutional Neural Networks (Python / Deep Learning)	In this paper, we propose a transfer learning-based deep learning method. Convolutional Neural

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S.No	Project Code	Project Name	Objective
			Network (CNN) for the object detection. For the improvement in the result, the majority voting scheme is used. The results obtained here have shown incredible improvement in the accuracy of the proposed work when compared to the other different CNN models.
114	TCMAPY209	Advanced Prediction of Performance of A Student in An University using Machine Learning Techniques (Python / Machine Learning)	In the proposed method, machine learning algorithms are used to evaluate students' performance in an organisation. Here, we used supervised and unsupervised techniques. In unsupervised learning, K-means and Hierarchical clustering are being used and in supervised, Naive Bayes and Decision Trees are used. These machine learning techniques can be used to predict the output for certain inputs.
115	TCMAPY205	Novel XGBoost Tuned Machine Learning Model for Software Bug Prediction (Python / Machine Learning)	In this project, we verify the effectiveness of XGBoost Algorithm in detecting bugs in software, and compared with the other traditional machine learning algorithms like logistic regression, decision trees, random forest and AdaBoost.
116	TCMAPY204	COVID-19 Future Forecasting Using Supervised Machine Learning Models (Python / Machine Learning)	The objective of this project is about novel coronavirus also known as COVID-19 predictions. The COVID-19 has proved a potential threat to human life. It causes tens of thousands of deaths and the death rate is increasing day by day throughout the globe. To contribute to this pandemic situation control, this study attempts to perform future forecasting on the death, recoveries and cases. Our model will help to create future predictions which reduce the burden to the people who are continuously working on covid predictions.

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S.No	Project Code	Project Name	Objective
1	TCMAAN391	Smart Mobile Application for Water Supply Management in Urban Cities (Android / Android Application)	The main problem lies in very basic need of such a population, which is the water. Water acts as a life source which is not easily available as well as which is in need especially in urban areas. It faces the water scarcity problem for last few decades due to inadequate rain and heavy population.
2	TCMAAN390	Virtual Queuing System for Ration and Ration Card Distribution Using an Android App (Android / Android Application)	In public distribution system one of the main problems with this system is the inefficiency in the targeting of beneficiaries and the resulting leakage of subsidies. The Planning Commission say on the PDS system in its 2005 report. Many systemic challenges that plague the PDS system today is "For every Rs.4 spent on the PDS, only Rs.1 reaches the poor"
3	TCMAAN389	Vehicle valuation App (Android / Android Application)	The main objective of this project is to evaluate the vehicle cost based on the different attributes called manufacture year, model.
4	TCMAAN388	Study Smart (Android / Android Application)	The main objective of this project is to add mobility and automation to the process of managing Student information in an institute. In a real-world environment, such as a college campus, information is disseminated to students in the form of notices, handwritten manuals, and vocal messages.
5	TCMAAN387	Route Quest (Android / Android Application)	In a collage there are many blocks and respective to class rooms also. For new Student and their parents it is difficult to find the class rooms in a collage. There is a need to plan & optimize routes to avoid confusion and to minimize the time.
6	TCMAAN386	Personalized healthcare system for diabetic patients (Android / Android Application)	As in remote areas, patients cannot have frequent access to the hospitals and this app will serve to eradicate this challenge. The app is efficient and reliable as the monitoring of a patient is done at any ware.
7	TCMAAN385	Organ Sharing (Android / Android Application)	The purpose of this study was to develop an organ management information system to assist in the management of organ donor

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S.No	Project Code	Project Name	Objective
			records and control the distribution of organ in various parts of the country basing on the o demands.
8	TCMAAN384	Notes and Password Manager (Android / Android Application)	You will be creating an android application which helps to take notes at any time and helps to generate a very strong password for the security of your account and makes them available whenever you need. It's going to have two major functionalities at the same time.
9	TCMAAN383	Mobile Based Collage and Student Communication (Android / Android Application)	College student is an Android Application which provides a common, easy to use platform for college students to develop a better interaction with fellow students, faculty and administration.
10	TCMAAN382	Learn 4 Growth (Android / Android Application)	Smart learning is defined as an effective, efficient, and engaging learning process using information technology to improve the quality of learning which includes motivation, involvement or engagement, and performance. To build a smart learning platform, a conceptual framework is needed.
11	TCMAAN381	Implementation of an android mobile location based service application for general auto repair shops (Android / Android Application)	Automobiles need maintenance from time to time. Like humans are required to maintain hygiene, similarly automobiles also need to be kept clean. Automobiles have to run on dirty roads and in a polluted environment. Here I am identifying the problems are facing in the Auto Garage (Mechanic shop) by the garage owners and workers and as well as customers also.
12	TCMAAN380	Grin Depot (Android / Android Application)	The project "Grin Depot" is developed to help certain dental clinics to provide their patients an online platform to schedule and book an appointment with the respective dentists.
13	TCMAAN379	Android App for Event Planners (Android / Android Application)	The project provides most of the functionality required for an event type e.g. [Marriage, Dance Show Birthday party, College Festival, etc.], the app allows the user to select date and time of event, place and the event equipment.

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S.No	Project Code	Project Name	Objective
14	TCMAAN366	Soil Testing App (Android / Android Application)	Soil testing is central to the nutrient management planning for economically profitable and ecologically sustainable crop production. Indiscriminate use of fertilizers based on their blanket recommendations or without knowing the native availability of plant nutrients in soil is of little importance in modern agriculture which not only aims at improving crop productivity but also at maintaining the fertility status of soil for sustained crop production. Further, reliability of the 'soil test based nutrient recommendations' depends largely on precision of soil testing, which necessitates proper understanding and knowledge of soil.
15	TCMAAN365	Farming Machinery Rental App (Android / Android Application)	Farming Machinery App is a specialized online marketplace for farm equipment: tractors, combines, reapers, and much more, as well as forestry equipment and spare parts. This app will help the individual farmers, willing to provide their agricultural machinery & equipment on rental basis to increase their farm income besides making the optimum utilization of the available Agricultural machineries.
16	TCMAAN364	Human Body Anatomy (Android / Android Application)	This Anatomy tool allows you to study human anatomy easily and interactively. Through a simple and intuitive interface, it makes it possible to observe every anatomical structure from any angle. The anatomical models are particularly detailed and with textures in a good resolution.
17	TCMAAN363	Smart School Academic Planner (Android / Android Application)	This is an online school management system that integrates and automates the data originating from various departments into one database. It manages all the elements of the school including student data, attendance, fee collections, exams, teachers, employees, and many more. It is one powerful app suite that combines all the tools needed to run a successful school.

S.No	Project Code	Project Name	Objective
18	TCMAAN362	House Rent.com (Android / Android Application)	Your new home is just a click away with our app. Start your home rental search with our app. Listings in this app gets updated daily with new rental homes & properties across the city including rental apartments, house rentals, townhouses, and more. The users can find cheap apartments for rent in minutes with comprehensive apartments that have been listed in the app. This app has a huge collection of affordable apartments in every price range with more being added every day.
19	TCMAAN361	Smart College App for Student needs (Android / Android Application)	This is an Android-based application for college that can be accessed throughout the organization and especially by students as well with proper login credentials that are only provided when needed. This application can just be used by students using their smartphones itself. Using this application, the students will be able to stay updated with all their college events, circular notices, and exam timetable.
20	TCMAAN360	Quarantine App (Android / Android Application)	The "Quarantine Management System" has been developed to overcome the problems prevailing in the current manual system in practice. This Mobile-based software is designed in such a way that it wipes out or diminishes the hardships and drawbacks in the existing manual system.
21	TCMAAN359	Improving Adult Literacy in Rural India (Android / Android Application)	Transform your life with the power of motivation and Inspirational speeches that reach you through this innovative app. One reason why most people lose confidence is when they fail to meet their set goals. So, one way of making sure now that you achieve each of your daily targets is by using this App. This app is designed to inspire you to keep moving forward with positive affirmations, tips, and insights that are being showcased in it.
22	TCMAAN358	Internship and Workshop Event Management App (Android / Android Application)	The objective of this project is to develop an android application that provides interesting news and

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S.No	Project Code	Project Name	Objective
			provides up to information pertaining to various events like internships and workshop events. Moreover, users will also be able to manage their event participation, such as reserving their seats in workshops, registering at the event site, and so on.
23	TCMAAN357	Animal Medical Veterinary Doctor App (Android / Android Application)	The objective of developing this project is to analyze and design a veterinary clinical management system that replaces the paper-based manual system for a user those who works manually by writing and keeping records in hardcopies or physical files.
24	TCMAAN356	Phasal Sahaayak (Crop Helper) (Android / Android Application)	Phasal Sahaayak helps a farmer with summarized information about crop, fruit, and vegetable that are being grown. The information details the climate and soil requirements, and how to do harvesting for crops like avocado, bananas, beans, carrots, cassava, cucumber, garlic, potato, maize, melon, onion, pepper and chili, pineapples, and tomatoes. The app also describes attacks caused by pests and diseases that are more likely to attack the said crops with their causes, symptoms and how they are spread along with the preventive and control measures to avoid those attacks. If applicable, the app advises with suitable farming practices to overcome crop pests and diseases.
25	TCMAAN355	Kheti Baaree (Android / Android Application)	Kheti Baaree is a precision-based plant protection solution that helps growers and crop advisors to forecast, identify, and treat plant diseases, pests, and nutrient deficiencies. Kheti Baaree leverages and deploys proprietary artificial intelligence and computer vision algorithms to help farmers, crop advisors, and agronomists to manage crops and thereby improve the crop yield. This digital plant doctor contains the knowledge of numerous agriculture experts from all over the world and it also has the capability to continuously improve itself from time to time. It offers a

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S.No	Project Code	Project Name	Objective
			multi-layered approach for keeping your plants healthy with focus both on forecast and prevention.
26	TCMAAN354	Contact tracing app (Android / Android Application)	It is a real-time contact tracing app that allows the users to view COVID-affected areas and global statistics of the said COVID. This app is developed to help the government in tracking the contact chain of a user who have been recently diagnosed with Coronavirus in order to determine the source and possible spread of infection.
27	TCMAAN353	Health check-up and food planner app (Android / Android Application)	This app checks your health day by day and suggests you proper meals that you should consume to remain healthy. It connects you to the numerous healthy recipes that are being provided by professional chef-bloggers. You can customize the app contents as per your health situation, e.g., if you are a heart patient, you will be recommended with recipes made of heart-healthy ingredients. The app can also partner with groceries to deliver healthy items online directly from the app.
28	TCMAAN352	Budget Planner (Android / Android Application)	Everyone has started taking control of their personal finance and monthly budget planning. Due to which, these kinds of budget tracking apps have become popular. Thus, a budget planner is designed. This is a good budget app to track spending and expenses, which could serve as a good budget maker and expense tracker for everyone. This is a good finance calculator while being user-friendly that allows for easier money management as the key to financial success is nonetheless money management. This app brings to you a good finance calculator to help you plan your budget, record your transactions, forecast your budget, and save money.
29	TCMAAN351	Personality analyzer (Android / Android Application)	Albert Einstein once said, "Everyone is a genius. But you will lose it by its ability to climb a tree, it will live only in the trees." This app is designed to analyze your personality and help you understand your strengths and weaknesses. It is a good app for students to use to improve their academic performance. It is a good app for professionals to use to improve their career. It is a good app for everyone to use to improve their life.

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S.No	Project Code	Project Name	Objective
			stupid". A personality test is an app that is developed and used to assess human personality. Personality testing and assessment are the techniques that have been facilitated in this app to measure the characteristic patterns of traits that people exhibit across various situations.
30	TCMAAN350	Learn From Gesture (Android / Android Application)	Understanding human behaviors is a challenging problem in today's world. Action recognition has become a very important topic in detecting emotional activity with many fundamental applications being in the arenas of robotics and video surveillance. This app provides the user with more quiz questions by guiding them to use their gestures and expressions.
31	TCMAAN349	Train Your Brain (Android / Android Application)	This memory training app series exercises to increase focus, memory, and problem-solving skills. Developers say that intensive working on the memory training dramatically increases attention and thereby increasing general cognitive skills. It also poses with test for memory involving IQ, concentration, Focus state, and memory speed and accuracy.
32	TCMAAN348	Study Tips for Students using Android Application (Android / Android Application)	Do you ever feel like your study habits simply aren't cutting it? Simply reading and re-reading texts or notes is not actively engaging in the material. In this app, we will provide tips to students like how to prepare for any exam or competitive exams by using this smart app. The user has to register first and he can able to get the study tips and techniques to clear any exam within a short period. And he can schedule the timetable to finish the syllabus at the given time.
33 (Page 7)	TCMAAN347	Skill Improvement App for Trainee (Android / Android Application)	Mobile devices have become one of the hottest commodities in these modern times. Without dismissing the importance of traditional education like going to school, checking out libraries and experiments, learning through

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S.No	Project Code	Project Name	Objective
			mobile apps has become essential in this modern age. There are hundreds of educational apps available these days. Some apps can cover general topics that you can use as study aids; some can sharpen your specialized skills. This app also provides guidance by improving our communication skills and management skills etc.
34	TCMAAN346	Self-Control App (Android / Android Application)	Self-control is a skill that develops over time. In this app ability to manage one's impulses, emotions, and behaviours for achieving long-term goals is what separates humans from the rest of the animal kingdom. You can find out yourself by using this app. It will create a peace of mind environment from messy life like anger management, life skills, relationship advice, and study management.
35	TCMAAN345	Resume-Making Android App (Android / Android Application)	Resume PDF will create resumes for you very easily and help you stand out in a job interview in minutes, and for free. The Resume application has several features and suggestions, some examples are the curriculum for apprentice and administrative assistants. Job searches are already fairly stressful. You should be able to build a resume without adding to that stress.
36	TCMAAN344	Motivation and Inspirational App (Android / Android Application)	Transform your life with the power of motivation and inspiration! One reason why most people lose confidence is when they fail to meet their set goals. Now, one way of making sure that you achieve each of your daily targets is by using this App. This app is designed to inspire you to keep moving forward with positive affirmations, tips, and insights.
37	TCMAAN343	Disciplinary Action App for Employees using Android Application (Android / Android Application)	The purpose of disciplinary action is to correct, not punish, work-related behaviour. Employer disciplinary action is a response by the employer to problems with employee performance or behaviour. It may come in the form

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S.No	Project Code	Project Name	Objective
			of a verbal or written reprimand or the loss of employee privileges.
38	TCMAAN342	Training and Coaching Management App (Android / Android Application)	In this app, we will provide coaching to students or whoever wants to learn any new course like an online study app. The user has to register first and he can choose courses from available courses provided by the admin. In this students can interact with the lecturer and faculty can give notes and work related to choosing the course.
39	TCMAAN341	Buy-Sell Exchange Automobiles using the Android Application (Android / Android Application)	Technology has changed the shopping habits and the needs of the customers. It has changed the way people have started looking up for things and purchasing small daily products to big purchases like buying selling cars online and so on.
40	TCMAAN339	AI-powered online recruiting app (Android / Artificial Intelligence)	Such an app would be helpful to fetch relevant resumes from different sources over the app. In fact, you can also count on it to conduct the initial rounds of a candidate's screening process. An AI-based online recruiting app would be a great artificial intelligence app idea for your startup.
41	TCMAAN338	AI-Based Yoga Assistant app (Android / Artificial Intelligence)	Artificial Intelligence has been helping in various aspects of human life. The technology has touched almost every industry; be it medical application, mobility, healthcare, or retail. And, now AI has made its way to the fitness industry. Generally, when it comes to fitness, a lot of people think about diet, cardio, gym, and the most popular option of all, yoga. Yoga has been the most favored one because it doesn't only benefit young adults, but also people who are old. Here pose estimation is going to take action.
42	TCMAAN337	AI-Based Meal Planner app (Android / Artificial Intelligence)	To help people get a customized meal plan, you can consider building an AI-powered meal planner app. Simply by entering their body nutrition requirements suggested by a nutritionist, the app can create a personalized meal plan for the user. You can give this mobile app idea a

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S.No	Project Code	Project Name	Objective
			try.
43	TCMAAN336	AI-Based Diagnosis app (Android / Artificial Intelligence)	Such type of app can be a boon for medical facilities, patients, and doctors. Using the app, patients can enter their symptoms, and the app will recommend to them which hospital or the medical facility they should visit for treatment. In short, it will help them in self-diagnosis. Another type of AI-Based diagnosis app can be synched with various medical equipment to help in treatment and diagnosis.
44	TCMAAN378	Employee Dashboard (Android / Android Application)	The aim of this project is to track the employee and monitor the employee activity in company by their office and improve the growth of the company by securing company data. In this project, we discuss about the design and implementing admin, employee application and Centralized server for monitoring employees of the company using android by separating corporate data.
45	TCMAAN377	E-Lab (Android / Android Application)	For the last few years, development in Information and Communication Technology is remarkable and still the development is under progress which can be easily observed in the current trend and the market is the evidence for it. Universities are the main source provider for IT Skilled personals to fulfill the demands of IT People in the Market.
46	TCMAAN375	Driver drowsiness detection (Android / Artificial Intelligence)	A sleepy driver is arguably much more dangerous on the road than the one who is speeding as he is a victim of micro sleeps. Automotive researchers and manufacturers are trying to curb this problem with several technological solutions that will avert such a crisis.
47	TCMAAN376	Driver drowsiness detection (Android / Android Application)	A sleepy driver is arguably much more dangerous on the road than the one who is speeding as he is a victim of micro sleeps. Automotive researchers and manufacturers are trying to curb this problem with several technological solutions that will avert such a crisis.

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S.No	Project Code	Project Name	Objective
48	TCMAAN374	Development of Native Mobile Application Using Android Studio for Cabs & Some Glimpse of Cross Platform App (Android / Android Application)	Now a day's everyone is in a need of smart phones majorly people uses androids phones for day to day communication. Many applications are developed for unlimited fun for people lives and the android system has become popular in the market of smart phones. The objectives of the project are to design android app which would provide the cab booking facilities without user dis satisfaction.
49	TCMAAN372	Construction Helmet Detection (Android / Artificial Intelligence)	Hard hat have been rapidly increasing amid time in various countries. Motorbikes are favored by citizens belonging to different classes of the society due to many reasons such as its economic value. Detecting heard hat using Ai
50	TCMAAN373	Construction Helmet Detection (Android / Android Application)	Hard hat have been rapidly increasing amid time in various countries. Motorbikes are favored by citizens belonging to different classes of the society due to many reasons such as its economic value. Detecting heard hat using Ai
51	TCMAAN370	Bus Pass Management (Android / Android Application)	The rapidly aging population causes long waiting times for taking bus pass. Diagnosing record of real-time data of each who are all using bus passes, Bus pass automation would be beneficial for collages to implement proper and better rates for passes.
52	TCMAAN369	E-Blood Bank Management System (Android / Android Application)	The Main Objective of this System is to design an Android Application to maintain considerable information of the Patients, Donors, and report details for any blood-related organization.
53	TCMAAN368	Bike and Car Pooling (Android / Android Application)	The purpose of this study was to develop a bike pooling management system for university students. To book the ride in between the biker location to university.
54	TCMAAN367	An event driven University campus navigation system on Android system (Android / Android Application)	There are no facilities to find places like administrative building, departments, library, canteen, etc. in the campus and how to find those places from current location. It

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S.No	Project Code	Project Name	Objective
			creates problem to the new comer to reach easily and timely in the desired location.
55	TCMAAN322	Go Grocery App (Android / Android Application)	Grocery Delivery App Development Company can help you get the right grocery app that will find a service or agent who can grocery shop on your behalf, exactly according to the grocery list you provide to them and deliver the groceries to your doorstep.
56	TCMAAN323	Goods-Transporter App (Android / Android Application)	Many people want to deliver goods to places in short-time, but it is difficult to find the right services at the right time. While, on the other hand, there are vehicles return empty after unloading their goods. In such cases this app can provide information about the vehicles that are available to transport the goods.
57	TCMAAN326	Startup Assistant (Android / Android Application)	Startup assistance app to help startups and new entrepreneurs find answers to common questions related to starting a new business, finding clients, getting investment, business tips, and everything else.
58	TCMAAN327	My Personal Chef (Android / Android Application)	Cooking is an endeavor unique to humans. It is mainly considered an art requiring culinary intuition acquired through practice. The preparation of food is a complex and subjective process that makes it challenging to determine underlying rules for automation.
59	TCMAAN328	My Personal Chef (Android / Android Application)	Cooking is an endeavor unique to humans. It is mainly considered an art requiring culinary intuition acquired through practice. The preparation of food is a complex and subjective process that makes it challenging to determine underlying rules for automation.
60	TCMAAN332	Happy life: Suicide Control App (Android / Android Application)	A suicide control app that will provide humanitarian assistance to those people who need to talk to someone to get convinced against such actions.
(Page 12)	TCMAAN313	Black Meter – A Taxi Meter (Android / Android Application)	An auto rickshaw or taxis are vehicles for hire, and it is one of the

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S.No	Project Code	Project Name	Objective
			chief modes of transport in India. A large number of people use these vehicles for their daily transportation and every time they pay extra amount as fare because there is no check on the reading of meter available.
62	TCMAAN315	E-Ayurveda Recommended Solution for All Disease (Android / Android Application)	Ayurveda -literally meaning the science of life is a comprehensive system of health care based on mainly experiential knowledge which passed from family to family or from teacher to student. The glimpses of therapeutic measures mentioned in Veda were expanded in Ayurveda with eight specialties.
63	TCMAAN320	Food Freshness Checker (Android / Android Application)	The objectives of this mobile device is to make an ML that can detect food spoilage. Smart system which can detect the freshness of household food like dairy items, meat, and fruits
64	TCMAAN214	Development of Municipal Services for Human Welfare by Using Smart Phones (Android / Android Application)	In our day to day life we are facing so many problems in our surrounding's like drainage , street lights, garbage collection, water ,electricity problem, roads cleaning etc., all the problems must be solved by government. But the government was not working properly so we are creating this app
65	TCMAAN321	Voice Assistance Android App for Visually Impaired (Android / Android Application)	Research shows that people with visual impairments are 31% less likely to access the internet than individuals without disabilities. This paper illustrates the implementation of software that provides assistance to the visually impaired for accessing the internet.
66	TCMAAN324	Kisan Salah: An App on Farming (Android / Android Application)	The estimation of crop based on the soil is essential nowadays for increasing the yield. A soil-based crop selection and fertilizer management system has developed and a normalized approach to characterize the composition of bare soil, metalloids, and mesological parameters.
67	TCMAAN325	Smart Parking (Android / Android Application)	Growing population in metro cities is leading to huge vehicle pendency, the

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S.No	Project Code	Project Name	Objective
			problems for car parking has become an unending question. To avoid roadside parking and associated traffic problems centralized car parking systems are established.
68	TCMAAN329	Public Transport App (Android / Android Application)	Here a methodology based on combination of GPS is discussed to help the people who utilize the public transportation for traveling. The user is provided with the information about the current location of nearest buses approaching the stop.
69	TCMAAN331	Traffic Challan: Challan Collection & Management-Based Android App (Android / Android Application)	Traffic Squad is an app which helps the police as well as the police by means of time and efficiency. With the increasing importance of corruption has become major factor to be considered as a result the number of vehicles and the rapid development of population are growing in our everyday life.
70	TCMAAN333	Invest in Idea (Android / Android Application)	The objective of this project is sharing the new thoughts and ideas to people. There is the lot of useful things behind this app. human brain can think in different way with the others. Those ideas can share with the people is a helpful thing to everyone.
71	TCMAAN334	My AR Corban Print (Android / Android Application)	A carbon footprint is the total amount of greenhouse gases (including carbon dioxide and methane) that are generated by our actions. Carbon emissions affect the planet significantly, as they are the greenhouse gas with the highest levels of emissions in the atmosphere. This, of course, causes global warming and ultimately, climate change. Carbon dioxide is released into the atmosphere when fossil fuels, coal, natural gas, and oil are burned.
72	TCMAAN314	Give away Your Items (Android / Android Application)	When someone is relocating or redecorating their houses, there will be a lot of stuff that goes into the trash, mostly because these things cannot be accommodated in the house. So, there is an app idea, a

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S.No	Project Code	Project Name	Objective
			platform to give away your used products online. It can be furniture, gadgets, or even clothes. You can give it away to charity or any other people in need.
73	TCMAAN316	Disease Doctor (Android / Android Application)	Our main objective is there are many hospitals are not treating patient effectively in the covid19 pandemic. Patients are panic about the disease, this app is useful to patients without consulting the doctor they can get the medicine.
74	TCMAAN317	Covid-19 Quarantine (Android / Android Application)	Governments and health authorities use quarantines to stop the spread of contagious diseases. Quarantines are also for people or groups who do not have symptoms but were exposed to the disease. The quarantine keeps them away from others so they do not unknowingly infect anyone.
75	TCMAAN318	COVID-19 Online Test Results & availability booking of Hospitals based Mobile App (Android / Android Application)	The COVID-19 pandemic has impacted hospitals around the world. Many hospitals have scaled back or postponed non-emergency care. This has medical consequences for the people served by the hospitals, and it has financial consequences for the hospitals. Health and social systems across the globe are struggling to cope.
76	TCMAAN319	Bus Reservation System (Android / Android Application)	The purpose of this app is to reserve the bus tickets from source to destination. this helps to users to pre book the seats on their wish.
77	TCMAAN312	DIY Encouragement App (Android / Android Application)	Basically, DIY means that, instead of hiring a professional to do a particular task or, instead of buying goods from a store or an artisan you're choosing to do that task or create those products yourself with no direct help from an expert
78	TCMAAN311	Soil with Suitable Farming (Android / Android Application)	The estimation of crop based on the soil is essential nowadays for increasing the yield. A soil-based crop selection and fertilizer management system has developed and a normalized approach to characterize the composition of bare soil, metalloids, and mesological

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S.No	Project Code	Project Name	Objective
			parameters
79	TCMAAN310	Vehicle Tracking for Government Bus (Android / Android Application)	In today's era everyone is using mobile phones for communication. At the same time Mobile Providers are also providing the variety of services to users.
80	TCMAAN308	Rescue Wings Active Services Support for Disaster (Android / Android Application)	In this app we reports a service-oriented system, called Rescue Wings, for providing emergency support to sufferers and rescuers in disasters.
81	TCMAAN307	Pick and Drop Bike Ride (Android / Android Application)	It helps to identify matches, connect instantly, communicate and share costs in cashless way. Pick and drop aims to provide users with a quick, simple, secure and cashless way to travel.
82	TCMAAN306	Mobile Application for Student Career Guidance (Android / Android Application)	The aim of recommender systems is to provide recommendations based on recorded information on the users' preferences. These systems use information filtering techniques to process information and provide the user with potentially more relevant items.
83	TCMAAN304	Intelligent Job Tracking (Android / Android Application)	The main objective of the project is to enable job seekers to apply for the desired companies and companies to publish their job advertisements. It enables job seekers to post their resume, search for jobs, view personal job listings.
84	TCMAAN303	iMadeDiagno Self Diagnosis System for Disease Treatment (Android / Android Application)	Self-diagnosis is the process of diagnosing, or identifying, medical conditions in oneself. It may be assisted by medical dictionaries, books, resources on the Internet, past personal experiences, or recognizing symptoms or medical signs of a condition.
85	TCMAAN302	Identify Face Expression Changer Using Tensor Flow (Android / Android Application)	In this first time, we are going to investigate how recognition and detection of each basic expression category (happiness, sadness, fear, disgust, anger, sadness and surprise) changes. We recognize this application using Tensor Flow.
86 (Page 16)	TCMAAN300	V-Walk	V walk is the object detection app to Email: info@takeoffprojects.com

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S.No	Project Code	Project Name	Objective
		(Android / Android Application)	help the blind people, to detect the app embedded sensors can send the object the request to app and app can recognize the object and speak.
87	TCMAAN299	Smart Helper (Android / Android Application)	The purpose of the app is to detect the objects around the blind person and app can speak the name of the detected object.
88	TCMAAN297	College Bus Tracking System (Android / Android Application)	The purpose of this app is to know the college bus current location based on the gps and it can schedule the drivers to the bus.
89	TCMAAN298	Safety Covid-19 (Android / Android Application)	Governments and health authorities use quarantines to stop the spread of contagious diseases. Quarantines are also for people or groups who do not have symptoms but were exposed to the disease. The quarantine keeps them away from others so they do not unknowingly infect anyone.
90	TCMAAN296	Automatic Seating Arrangements (Android / Android Application)	The main objective of the app is reduce the stress from the arranging the examination seating manually in a collages.
91	TCMAAN294	Android Based Student Fees details Application (Android / Android Application)	The main objective of the Student fee project is we want to provide this to our college so that parents or students can check the fees details of their children through this app. Our main aim is that all the fees details like total fees, due fees, due date and all categories like a bus, tuition, exam, university fees etc.
92	TCMAAN293	Urban Trasnport (Android / Android Application)	Smart cities mission of India gaining popularity day by day. With the introduction of Internet of Things into smart cities the goal of smart cities mission is easy to achieve. One of the key feature of smart cities is Public transport.
93	TCMAAN292	Online Bus Pass Renewal System (Android)	The rapidly aging population causes long waiting times for taking bus pass. Diagnosing record of real-time data of each who are all using bus passes, Bus pass automation would be beneficial for government to implement proper and better rates

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S.No	Project Code	Project Name	Objective
			for passes. Also taking tickets in a bus is a tedious process now-a-day. Giving exact change for tickets to a large crowd is also a tedious process for conductors in the buses. To overcome this, we have developed application.
94	TCMAAN291	Remote Ticket Booking System (Android / Android Application)	The main purpose of this project is to create an application to minimize and save the time of students and to keep canteen in an organized way.
95	TCMAAN290	Smart Mechanical and Fuel Services (Android / Android Application)	The main objective is to provide a better service and to make the daily life to run smoothly and finally getting Mechanical and vehicle related services easily. Proposed system is accessed by two entities namely, Service Providers and User. A Service Providers can perform task such as viewing request received from users and can confirm or cancel the request based on his availability. User can find service providers like mechanics, Towing services and Fuel services based on his location and request for service.
96	TCMAAN289	Child Safety & Tracking Management System (Android / Android Application)	The objective of the project is this model is developed to rectify the worries of parents regarding their child security.
97	TCMAAN288	Customization Bulk Food Ordering and Management System (Android / Android Application)	The ultimate goal of our app is for users can order food for parties and functions. How this app can flexible is, this can get the food orders front to user. This gives customers satisfaction without having to search for catering services.
98	TCMAAN286	Student SmartCard (Android / Android Application)	Student smart card app can be used in college like canteen, library, stationary to reduce the work using app wallet and college id card.
99	TCMAAN285	Food Donor Application (Android / Android Application)	The sharp increase in the amount of wastage in terms of food, clothes, books, etc. makes the need for charity in terms of donation. This paper presents 'Food Donor, a new internet-based application that provides a platform for donating old stuff and leftover food to all needy people/organizations.

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S.No	Project Code	Project Name	Objective
100	TCMAAN284	Parental Control App (Android / Android Application)	The main objective of our project is Using electronic devices is not limited to adults or to specific time or place. Children use different types of mobile devices with no constraints. Parents concern about the effect of the technical explosion on their children development.
101	TCMAAN283	IOT Based Smart Shopping Cart using RFID (Android / Android Application)	Here problem in shopping is we need to stand in the line for billing, present pandemic conditions are very danger in the shopping malls. Because crowd are heavy in the shopping malls. Avoid those things we are doing with RFID and Android.
102	TCMAAN282	Face Detection for ATM Security (Android / Android Application)	Face detection is an advances machine learning technology being used in a variety of applications that identifies human faces in digital images. Face detection also refers to the psychological process by which humans locate and attend to faces in a visual scene.
103	TCMAAN281	Electrical Vehicle Recharge Project (Android / Android Application)	Our main objective is to give the information and booking of slots to recharge the Electric vehicles near by the stations. It can help to locate the Charging Bunks.
104	TCMAAN280	Student Fee Project (Android / Android Application)	The main objective of the Student fee project is we want to provide this to our college so that parents or students can check the fees details of their children through this app. Our main aim is that all the fees details like total fees, due fees, due date and all categories like a bus, tuition, exam, university fees etc.
105	TCMAAN276	Traffic Signal Alert (Android / Android Application)	The main objective of the app is heavy traffic at the traffic signals to overcome this, and reduce waiting time at signals we are proposing this app.
106	TCMAAN274	Attendance System using RFID (Android / Android Application)	The main objective of our Android application is to develop RFID Based Attendance and Bus Tracking System to track the children's location when they are going to school. By tracking the children's home. By tracking the children's

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S.No	Project Code	Project Name	Objective
			location, we are able to know whether the child is safe or not. If there is an emergency situation than an alert indication will be given to the school and the parents immediately. Our application improves child safety when going to school or home from school.
107	TCMAAN275	College Faculty Recruitment System (Android / Android Application)	The objective of this project is Today, at the recruitments drives, there are flow of candidates coming in the ratio of 1:10 for a position vacancy so management may hurry up in the process and there are chances of selecting inefficient candidates and also it consumes lot of management valuable time so to overcome this we have developed this online recruitment mobile application.
108	TCMAAN273	Course Assistant for Educators (Android / Android Application)	The main objective of this project is to recommend the course and assist the about the course . this will makes app useful to students after their degree.
109	TCMAAN272	Online Document Scanner (Android / Android Application)	The main purpose of this project is to create an application to make scanning both convenient and practical for virtually anyone.
110	TCMAAN271	Farmer Welfare (Android / Android Application)	The main objective of farmer welfare project is to help the famers in forming process. In this the famers view the crops and their diseases. The famers will know easily crops details and their field type and season type. In this app the farmers will know and view the loan details like which bank is giving best interests.
111	TCMAAN270	Home Automation For Disabled Persons Using His Voice Tag (Android / Android Application)	In this project, we have designed a Voice Activated Home Automation system, where different appliances are controlled by sending a Voice Commands. The Voice Activated Home Automation project is implemented using Arduino UNO, Bluetooth and a smart phone.
112	TCMAAN269	Smart Mechanical Service Application (Android / Android Application)	The main objective of the Smart mechanical service application is to service the people who facing the

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S.No	Project Code	Project Name	Objective
			problems for repair their vehicles. To this problem we are providing mechanics nearby them with the locations.
113	TCMAAN268	Navigation And Obstacle Detection For Visually Impaired (Android / Android Application)	The purpose behind this project is to develop an application which provides a support system for visually impaired and blind people in unknown indoor and outdoor environments.
114	TCMAAN267	Online Voting App (Android / Android Application)	The purpose behind this project is to develop an application for public who can cast votes from being in remote places with the help of our mobile application.
115	TCMAAN266	IS YOUR ANDROID APP INSECURE! (Android / Android Application)	The purpose behind this project is to develop an application which implement the security function to all the installed applications on the devices.
116	TCMAAN265	SHCM (Smart Home With Conditional Monitoring) (Android / Android Application)	The main purpose of this project is to create an application to minimize and save the time of patients and to keep clinic in an organised way.
117	TCMAAN263	COVID-19 Tracker (Android / Android Application)	COVID-19 Tracker allows you to monitor the number of COVID-19 cases around the globe and different countries as the spread of disease is increasing. The sole purpose of this application is to keep you aware of the spread of disease around you and help you share credible and trustworthy information with your friends and family.
118	TCMAAN262	Covid-19 Contact Tracer (Android / Android Application)	The main objective of the app is to fulfill the need of "How to Find the Covid-19 positive cases around me" and make this visualize in Google maps
119	TCMAAN260	Visual Product Identification for Blind using Android (Android / Android Application)	The objective of this project is to develop an application that will enable blind users to get information about a particular product. We build on our recent work focusing on reading a barcode (assuming it has already been segmented) using a Bayesian deformable template algorithm that combines a prior model of the geometric shape of the

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S.No	Project Code	Project Name	Objective
			barcode pattern with a likelihood model that evaluates evidence in the image for edges. Such an approach is a principled technique of decoding noisy barcode images that contain spurious (or missing) edges.
120	TCMAAN186	Voice assistance for blind people. (Android / Android Application)	The Voice assistance for blind people project is for helping the blind people. This project when done along with an embedded integration project simplifies the complex problem faced by the blind. In this app, there is an object detection technology enabled by the hardware and voice technology handled by the android app and, communication through either Wi-Fi or cloud-based communication for both app and hardware parties.
121	TCMAAN278	Rash Driving Alert (Android / Android Application)	The main objective of the app is to detect the speed of the app by using phone sensor and alert the users when it reaches his maximum speed limit.
122	TCMAAN277	Android Task Monitoring (Android / Android Application)	The main objective of the app is people in major cities is very demanding and the schedules are equally hectic. In such times, it is practically impossible to keep a track of all the activities/ appointments. Many a times, it happens that we may miss an important task; for example: taking medicines, attending a meeting, returning library books, paying the bills etc. this app can remain the tasks.
123	TCMAAN257	FARM2FLATS (Android / Android Application)	The main purpose of this project is to provide an opportunity to expose farm products to many new people, to many customers who are looking to buy fresh produce directly from the farmers. Farms2Flats lets every farmer display their produce on an exciting and advanced platform, and at no cost and customers can buy fresh produce at farmer rates without middlemen's interferences.

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S.No	Project Code	Project Name	Objective
			local handicrafts to many new people, to many customers who are looking to buy handmade and original products directly from the hand crafters. Craft Kart lets every hand crafters to display their products on an exciting and advanced platform, and at no cost and customers can buy handmade at hand crafter rates without any brand involvements.
125	TCMAAN148	Virtual Guide for tourist (Android / Android Application)	This project virtual guide for tourist is to provide the tourist places and guidelines to visitors and same as the touristic guide. This information helps the tourists to find the desired locations to visit. Also, we can provide the all locations like tourist places, restaurants, lodges and hotels etc.
126	TCMAAN151	Smart Video Surveillance System using Android App (Android / Android Application)	Smart video surveillance application is the use of automatic photo and video analysis. While checking the video surveillance footage identifying the faces is a real problem so for that this application will take the pictures of the person without noising and will be a lot helpful in finding that person.
127	TCMAAN254	Covid Shield (Android / Android Application)	The main purpose of this project is to develop an android application which helps in tracking COVID-19 positive person's movements. Since the arrival of COVID-19, countless humans are dead and the count keeps increasing. Hence, it is important to maintain social distance among ourselves. So, our android application helps to track movements of COVID-19.
128	TCMAAN253	Bitcoin Wallet App (Android / Android Application)	The purpose of this project is to develop a digital wallet system to transact crypto currencies type of bitcoins to users. Our Android application uses bitcoins in the place of money we use in normal digital payment system in day-to-day life.

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S.No	Project Code	Project Name	Objective
			Bluetooth. It is designed to give the user the ability to manage all equipment that is capable of being automated from a single controlling source. Disparate equipment from a variety of manufactures using a variety of automation protocols is all abstracted into a common metaphor that allows it to be controlled easily by a single system. The technology may be used for monitoring, switching on and off the components, according to the programmed criteria.
130	TCMAAN252	Step Counter (Android / Android Application)	The Objective of this project is to track your burned calories, walking distance and time, etc. and all this information to be clearly displayed in graphs. Then one can set daily step goals. Consecutively achieve their goal for 2 days or more will start a streak. They can easily check their streak statistics chart to stay motivated.
131	TCMAAN251	Swap It. (Android / Android Application)	The main objective of this project is Olx, Quikkr and Other applications are selling goods of used items in return of money but There is a need of developing applications which will purely work on Barter exchange. There is a need of Exchange of goods in place of money. There is the need of replacing money with user interested things.
132	TCMAAN250	Local Medical Search (Android / Android Application)	In the present situation getting the medicines within the time is somewhat difficult. At the same time to search the medicine within different shops is also very difficult. So to overcome these issues we are developing this local medical searching application.
133	TCMAAN200	Human Andro system (Android / Android Application)	The human andro system is fundamental problem in robot development. Namely, not only the behaviour but also the appearance of a robot influences human-robot interaction. There is, however, no project approach to tackling this problem. In order to solve the problem, we have developed an android robot that has similar

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S.No	Project Code	Project Name	Objective
			appearance as humans and several actuators generating micro behaviors . This project proposes a new direction based on the android robot.
134	TCMAAN201	Humanoid robot control by using ANDROID with GPRS technology (Android / Android Application)	The humanoid robot control by using android with GPRS technology project is user can control the robot using an android application. And in the robot, each part can move with the remote. And the commands send to the robot via Bluetooth. The commands are design in android application.
135	TCMAAN199	Android robot car using Accelerometer Sensors (Android / Android Application)	In the android robot car using accelerometer sensors project we can implement the robot car application to control the robot car. And in order to control the robot car we can send the commands to a Bluetooth device which is place in circuit. From these commands, the robot car will move. And for controlling in the application we can designs the buttons to move.
136	TCMAAN198	Android Robot Helicopter using Accelerometer Sensors (Android / Android Application)	In the android robot helicopter using accelerometer sensors project we can implement the robot helicopter application to control the robot helicopter and in order to control the robot helicopter, we can send the commands to Bluetooth device which is placed in the circuit. From this commands the robot helicopter will perform action.
137	TCMAAN197	Office Automation (Android / Android Application)	Android platform is a new generation of smart mobile phone platform launched by Google. Android provides the support of Blue-tooth. This Technology is a collective term for information and communication-technology in offices, where the components are communicating through a Blue-tooth.
138	TCMAAN196	Implementation and modelling of robotic arm using Android (Android / Android Application)	The implementation and modelling of robotic arm using android project is to implement the robotic arm and for this the android provides the support of Bluetooth. Here we are sending the digital commands to

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S.No	Project Code	Project Name	Objective
			each one of the part to control the process. We can easily work with the robotic arm without any risk. And all the commands are implemented in this android applications and we can control it from that.
139	TCMAAN190	Baby Monitoring System (Android / Android Application)	The main theme of this project is to integrate the embedded system with the smartphone, Here the sensors of embedded like noise sensor and moisture sensor and temperature sensor and camera for surveillance these are the things can monitor the baby and send email and notification and video streaming can be viewed in smart phone app.
140	TCMAAN189	Anti-Ragging using IoT Voice recognition (Android / Android Application)	The anti-ragging system using IOT voice recognition project is to recognize the voice of people who are doing the ragging with others. This project main aim to avoid the ragging activities in any place using of voice sensors.
141	TCMAAN188	Smart shopping card using RFID android app. (Android / Android Application)	The smart shopping card using RFID project is consists of two parts which mainly focuses on navigation to the item's location and automatic billing of the products that the user has purchased. The building environment of the app is the open source software called Android Studio software. An RFID reader is used to scan the products.
142	TCMAAN185	Smart online Catering Ordering and Reservation System (Android / Android Application)	The ultimate goal of our app is for users can order food for parties and functions. How this app can flexible is, this can get the food orders front to user. This gives customers satisfaction without having to search for catering services.
143	TCMAAN184	Smart Grammar App using AI (Android / Android Application)	This is a simple application since its name suggests its purpose is to frame English sentences for those not so strong in English. His job is to correct and reframe the written sentences, if they are incorrect. It will benefit those users who feel poor in English, and if they use it, one or the other way they can improve their English too.

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S.No	Project Code	Project Name	Objective
144	TCMAAN182	Online Recruiting Automation. (Android / Android Application)	Today, smart employers are widely using AI-enabled recruitment mobile applications to find the right candidates who have not been considered for job roles in the past, not because they were well qualified, but because they appear in search results or did not appear.
145	TCMAAN181	AI Enabled Learning App. (Android / Android Application)	The concept of AI or machine learning tools has changed the way we read, search, and write text. There is advanced AI or machine learning applications that understand, search and read for you, this will also help researchers to learn about the development of the latest technology, tools and information.
146	TCMAAN180	AI Enabled Market Prediction App. (Android / Android Application)	Now these days, market traders needs to be updated at every step of the market. The use of AI or machine learning app in the modern stock market keeps the shares rising and falling on a daily basis. You can also get help building a portfolio, check the real-time market value of any stock, getting help in understanding stock charts, market trends and everything from your mobile phone.
147	TCMAAN178	Interior Design for Smart Home. (Android / Android Application)	Decorating your home with the right items is not easy. This app will take a picture of the user's room and allow visualizing it with different available interior designing options, like, carpets, curtains, wall paint, etc.
148	TCMAAN176	AndroHealth PHR Using IOT (Android / Android Application)	The main purpose of this project is to develop an android application using IOT which helps patients to test Blood Pressure, Temperature and Heartbeat rate on their own. These Personal health records (PHRs) can help doctors to give better treatment to their patients from remote locations.
149	TCMAAN175	Android Facial Expression App (Android / Android Application)	The main aim of facial expression detection is to detect customer satisfaction on the user's face which can give accurate results to the organization. And there is another Email: info@takeoffprojects.com

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S.No	Project Code	Project Name	Objective
			thing also here we are implementing this concept to reduce the human efforts to give the customer service satisfaction.
150	TCMAAN171	Age and Gender Detection in Malls at Pandemic Situations (Android / Android Application)	Our motivation was to create a program that could be used to collect information on the People who visit business areas, use their surveillance systems as an input. Automatic age and gender classification have become relevant to an increasing number of applications.
151	TCMAAN170	Human Activity Detection in Coma Patient (Android / Android Application)	The main purpose of this project is to develop an android application which helps in detecting human activity in coma patient. The ultimate objective is to reduce manually monitoring of coma patient and to develop computerized system and if any activity found, Patient concerned persons should get notified in their mobiles.
152	TCMAAN168	Notify Music Recommendation app karaoke. (Android / Android Application)	When a new user registers to the system or a new item is added to the catalogue and the system does not have sufficient data associated with items. In such a case, the system cannot properly recommend existing items to a new user (new user problem) or recommend a new item to the existing users.
153	TCMAAN167	Android Eye Crime (violence) detection app (Android / Android Application)	We present an efficient way of detecting anomalies in videos. Surveillance security is a very tedious and time-consuming job. In this app, we will build a system to automate the task of analyzing video surveillance. We will analyze the video feed in real-time and identify any abnormal activities like violence or theft.
154	TCMAAN166	Intruder detection in Queue (Android / Android Application)	The aim of this project is to introduce a new smartphone-equipped Android application for assistance via the camera: in particular, the lane detection part will be covered. Using computer vision algorithms generated ad hoc for the task, the application must be able to position.

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S.No	Project Code	Project Name	Objective
			in the most practical way, people should maintain a straight line in any event and should stand within the line. This helps the administrator of the event to control the queue and can see that no fights occurs in event, this can be fueled by Deep Learning algorithms.
155	TCMAAN163	Virtual Cook Application to cook with the existing ingredients. (Android / Android Application)	This application will advise the recipe for cooking food, but not tell you the ingredients. In fact, it will first ask the users about the available ingredients and will come up with a dish that can be made with those ingredients on its own, so that the user won't have to rush for other additives. When you have fewer ingredients available and want to cook something great it's the app for you.
156	TCMAAN162	Allotting Restaurant time/Ordering Food with AI (Android / Android Application)	The goal of the project is if they want to book a table or food for particular time-slot, this will allow users booking a table online by suggesting best from the restaurants along with the previously visited ones. This will reduce the time and makes the user more comfortable.
157	TCMAAN160	Language to Language translator in the Medical Industry. (Android / Android Application)	Medical or clinical vocabulary is almost a language in itself. The objective of the project is to translate doctor's language to patient's language or vice versa using android application language translator.
158	TCMAAN150	Sound locker with IoT (Android / Android Application)	The Sound locker project is helpful to lock the all assets either together or separately. From this project, there is no need to worry about the loss of data and security issues anymore. In this we can provide voice also and you can lock or unlock to applications.
159	TCMAAN152	colleague Mapper / Friend Locator with notification. (Android / Android Application)	Finding the employee's location is very difficult, sometimes not just employees, even any other person who are in our contacts are difficult to locate. The colleague mapper friend locator with notification application will send any alert which Email: info@takeoffprojects.com

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S.No	Project Code	Project Name	Objective
			will help to get the location of the others, but for that they need this application to be installed in their mobile and should be logged in.
160	TCMAAN153	Alcoholic self Control App (Android / Android Application)	This application can be simply considered as a rehabilitation app for alcohol resilience treatment. In general several people don't want to be identified as an alcoholic and so that often times they don't like go to the rehabilitation center. In that case this app will help to undergo the process within their home itself.
161	TCMAAN154	Seed testing to improve cultivation (Android / Android Application)	The seed testing to improve cultivation project is to help the farmers in detecting the seeds on whether they are defective or not. In this project, the scanner detects the seed and will give the overall information about the seed to the user. And it will show how to check if the seed is not defective.
162	TCMAAN155	Voice to Voiceless communication for Dumb. (Android / Android Application)	The voice to voiceless communication for dumb project is help to dumb people and not just people who can speak. This system will help these people to communicate with others in a better and convenient manner.
163	TCMAAN156	Digital Vehicle (Android / Android Application)	Nowadays, Android app has become common and very essential in our daily life and every person carries a phone with him so having this in mind, Digital license is a mobile app that can provided to every cop through the government, as it used only by a cop to ensure privacy of sensible data.
164	TCMAAN157	Currency detector for visually impaired. (Android / Android Application)	This project is for visually impaired people who cannot identify the currency note and it will help them to have the feel safe while there any kind of hand to hand money transactions.
165	TCMAAN158	Bookworms Circle. (Android / Android Application)	The objective of the project is to connect the book readers through our Android Application and they can share the books which are available with them among others in that circle. So that user project need

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S.No	Project Code	Project Name	Objective
			of purchasing books all the time and other side who have those books and kept aside or already read it, can share the books among others which gives them inner satisfaction of that they have helped someone.
166	TCMAAN207	University guidance system (Android / Android Application)	In this application the user is guided and navigated to where we opted to go, usually in any university, there will be many places like Library, Canteen, Lab, Bank and Book stores. For university stake holders like Students, Professors, Staffs and any other new visitors they can easily reach their destinations and perform their activity.
167	TCMAAN206	Heart Beat Monitoring Using ECG Sensor (Android / Android Application)	Along with IoT and Embedded System, Arduino and Raspberry PI also taken the health sector through exponential growth, providing compact and low-cost medical instruments for tracking vital signals. In diagnosing heart disease, electrocardiographic (ECG) equipment plays a crucial role. The cost of this machinery, though, is high and the process is so complicated that a vast population of developed countries cannot offer better facilities. We have developed and deployed a totally low-cost approach.
168	TCMAAN205	Patient Monitoring System Using Smart Phone (Android / Android Application)	Tele-medicine is a rapidly developing application of clinic medicine where medical information is transferred through the phone or other networks for the purpose of consulting and performing remote medical procedures or examinations. This project elaborates the experience; a methodology adopted and highlights various design aspects to be considered for making telemedicine in patient monitoring system effective. In this method, the patient's vital signs like ECG, heart rate, breathing rate, temperature are captured and the values are continually displayed on the doctor's phone using ANDROID technology.

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S.No	Project Code	Project Name	Objective
		(Android / Android Application)	user can views all the tests and check-up and their costs. The user sends all the required details to lab which will then be diagnosed and will also provide the results in the form of a graphical report or in any format that is available to the user. The user will view the results in the form of graphical data or in the form of image format. This takes a less amount of time than the usual time.
170	TCMAAN203	TV Program Notification App (Android / Android Application)	The notification project for tv program is a time schedule project, because when the user puts the time slot in this, to that time we are going to send the notification to the user, then he can alert to see that. And also, if we want to turn on the tv to particular time then you set the time to that, automatically tv will be on to that time.
171	TCMAAN194	Animal recognition (Android / Android Application)	The animal recognition project is to recognise the animals using a convolution neural network. Although various machine learning models can classify images of different animals, it remains a challenge to distinguish animal species. This is because there are certain species with a high color similarity. It is a complicated process that requires expertise even for human beings. The CNN models are efficient modern recognition methods.
172	TCMAAN193	Auto irrigation (Android / Android Application)	The auto irrigation project continuously collects the data from that cloud server. Once the soil moisture values are exceeded the particular limit then the relay, which is connected to the Arduino microcontroller. Automation of irrigation system using IoT 79 motor. From that controller automatically water the plants when the soil moisture sensor has detected the soil is insufficient of water by using the arduino as the center core.
173	TCMAAN192	Diet Advisor (Android / Android Application)	The main theme of this project is to integrate the embedded system with the smartphone, here the task is to get the calories from the food by

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S.No	Project Code	Project Name	Objective
			detecting the calories in embedded system, based on the user BMI, android app need to prepare the diet plan for the day.
174	TCMAAN191	Air Pollution Detection App (Android / Android Application)	Many areas in India, and the world, are facing serious air quality problems. In India, local, state, and central agencies are engaged in efforts to identify where air pollution exists, the cause of air pollution, and how to control air pollution. Through IOT we are going to monitoring the air pollution.
175	TCMAAN187	Fingerprint authentication. (Android / Android Application)	A fingerprint based biometric system is also employed for providing robust security to the home. This security system provides only authentic access to the door lock of the home as well as the automation circuitry. Considering the ergonomics, push buttons are included for delete and enroll process of new fingerprints. Here we are going to integrate a smart app fingerprint sensor to automate and authenticate.
176	TCMAAN183	Android Step Tracker and Diet Adviser. (Android / Android Application)	Running is the best exercise a person can do for his or her own health. So we've come up with this idea of creating an android application that will let them know the no. of steps they've been running or walking up until now. This app is designed to monitor your health based on your no measures, water intake and complete sleep.
177	TCMAAN177	Air Pollution Detection Using ML. (Android / Android Application)	Air pollution causes damage to crops, animals, forests, and bodies of water. It also contributes to the depletion of the ozone layer, which protects the Earth from the sun's UV rays. Another negative effect of air pollution is the formation of acid rain, which harms trees, soils, rivers, and wildlife.
178	TCMAAN172	Election Exit Poll Prediction (Android / Android Application)	Predicting election results is a hot field of political science. In the last decade, social media has been commonly used in democratic campaigns. The results of a national election can be predicted by most

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S.No	Project Code	Project Name	Objective
			techniques.
179	TCMAAN164	Flashback Retrieving the deleted files (Android / Android Application)	The objective of this application is to retrieve the files that are deleted by the user which are important. In PC we can easily do that by using Recycle Bin but in mobiles it is not easy as there are no applications available like that. This app will allow the users to see what they did on their phone in the past and also able them to undo their tasks.
180	TCMAAN161	Personal monitoring of blood pressure using android smart phones (Android / Android Application)	The objective of this project was to determine the availability, functionality, and quality of mobile apps that could be used for blood pressure monitoring purposes. Checking the blood pressure itself is a lot costlier when it comes to poor people for which they can't afford. Despite that this application will help a lot to those just by using their mobile.
181	TCMAAN159	Veggie Freshness Check App. (Android / Android Application)	The objective of the project is to check freshness of vegetables through our Android application and display the results to the users and avoid unseen circumstances like food poisoning and unhealthy vegetables consumption. The vegetables kept at room temperature undergo rapid bacterial growth and chemical changes in them. Consuming unhealthy vegetables can cause several foodborne diseases which may harm our health.
182	TCMAAN126	Real-time Crop Health Assistance To Farmers (Android / Android Application)	The purpose of the app is help the farmers to know the health conditions of the crop and if any assistance is needed, this app can give the assistance to farmers to maintain health crop.
183	TCMAAN106	Examination Hall Seating Arrangement System (Android / Android Application)	The main objective of the app is reduce the stress from the arranging the examination seating manually in a collages.

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S.No	Project Code	Project Name	Objective
1	TCPGJA545	Multi-Source Medical Data Integration and Mining for Healthcare Services (Java / Cloud Computing)	In this project we put forward a novel multi-source medical data integration and mining solution for better healthcare services, named PDFM (Privacy-free Data Fusion and Mining). Through PDFM, we can search for similar medical records in a time-efficient and privacy-preserving manner, so as to offer patients with better medical and health services.
2	TCPGJA553	A Verifiable Semantic Searching Scheme by Optimal Matching Over Encrypted Data in Public Cloud (Java / Cloud Computing)	The main objective of this project is "To provide retrieval service to arbitrary words so that queries and search results are flexible. So, it provides verifiability and confidentiality towards security analysis."
3	TCPGJA526	Dual Access control for Cloud Based Data Storage and Sharing (Java / Cloud Computing)	This project aims to create a Privacy Enabled and Secured Cloud Project deployed in AMAZON WEB SERVICES (AWS). Services offered are Privacy, Encryption and Decryption, hindering Denial of Sustainability attacks.
4	TCPGJA508	A Secure Data Dynamics and Public Auditing Scheme for Cloud Storage (Java / Cloud Computing)	The main aim of the project is to achieve a secure public auditing scheme applying third party auditors to authenticate the privacy, reliability, and integrity of data stored in the cloud. This proposed auditing scheme composes the use of the AES-256 algorithm for encryption, SHA-512 for integrity check and RSA-15360 for public key encryption. And perform data dynamics operation which deals with mostly insertion, deletion, and, modification.
5	TCMAPY747	Cost-efficient Outsourced Decryption of Attribute Based Encryption Schemes for Both Users and Cloud Server in Green Cloud Computing (Python / Cloud Computing)	The main objective of this project "To reduce the total overhead of the cloud server for outsourced decryption of ABE scheme besides decreasing the user's overhead of the decryption of ABE scheme when many users submit the outsourced decryption service to the cloud server."
6	TCPGPY394	Cost-efficient Outsourced Decryption of Attribute Based Encryption Schemes for Both Users and Cloud Server in Green Cloud Computing	The main objective of this project "To reduce the total overhead of the cloud server for outsourced decryption of ABE scheme besides

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S.No	Project Code	Project Name	Objective
		(Python / Cloud Computing)	decreasing the user's overhead of the decryption of ABE scheme when many users submit the outsourced decryption service to the cloud server."
7	TCPGJA509	Cost-efficient Outsourced Decryption of Attribute Based Encryption Schemes for Both Users and Cloud Server in Green Cloud Computing (Java / Cloud Computing)	The main objective of this project "To reduce the total overhead of the cloud server for outsourced decryption of ABE scheme besides decreasing the user's overhead of the decryption of ABE scheme when many users submit the outsourced decryption service to the cloud server."
8	TCPGJA510	A Categorization of Cloud-Based Services and their Security Analysis in the Healthcare (Java / Cloud Computing)	The main objective of this project "Achieves security and risk assessment issues in cloud-based services and also offers an eye catching categorization of cloud benefits and threats in the healthcare sector providing many important tools and applications."
9	TCPGJA515	Derepo: A Distributed Privacy-Preserving Data Repository with Decentralized Access Control for Smart Health (Java / Cloud Computing)	This project aims to create a novel data repository named Derepo to address the security and privacy issues of the medical data by securing the storage with the decentralized access control mechanism and preserving privacy via the homomorphic encryption scheme.
10	TCPGJA516	A Parallel and Forward Private Searchable Public-Key Encryption for Cloud-Based Data Sharing (Java / Cloud Computing)	The Main Objective of the Project to Make a Variant Searchable Encryption with Parallelism and Forward Privacy, Namely the Parallel and Forward Private Searchable Public-Key Encryption Implementing At the Same Time.
11	TCPGJA520	Group Key Management Protocol for File Sharing on Cloud Storage (Java / Cloud Computing)	In this project, we are proposing the Group Key Management Protocol for file sharing on cloud storage (GKMP). This helps in achieving the authentication scheme which is used to prevent the shared files from being attacked by a combination of cloud providers and group members.

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S.No	Project Code	Project Name	Objective
1	TCPGNS571	Detection of selective forwarding attacks in wireless sensor networks using channel aware adaptive detection threshold (NS2 / Networking)	
2	TCPGNS570	An Anymoons Routing Scheme for Free Service Location in Wireless Sensor Networks (NS2 / Networking)	
3	TCPGNS78	Real-Time Intersection-Based Segment Aware Routing Algorithm for Urban Vehicular Networks (NS2 / Networking)	The objective of this project is to present a real-time intersection-based segment aware routing (RTISAR), an intersection-based segment aware algorithm for geographic routing in VANETs. This routing algorithm provides an optimal route for forwarding the data packets toward their destination by considering the traffic segment status when choosing the next intersection.
4	TCPGNS567	Performance Evaluation of Ad-Hoc Networks in Static & Mobile Environment (NS2 / VANET)	The main objective of this project is "To increase the network energy consumption and to present the performance evaluation of RPL in the mobile network and comparison is performed with the static network."
5	TCPGNS566	Traffic Congestion and Accident Prevention Analysis for Connectivity in Vehicular Ad-hoc Network (NS2 / VANET)	The main objective of this project is "To improve the connectivity between vehicle to vehicle as long as they are connected to each other and to reduce the road accidents with the help of improving connectivity."
6	TCPGJA559	Energy-Optimal and Delay-Bounded Computation Offloading in Mobile Edge Computing with Heterogeneous Clouds (NS2 / Mobile Computing)	The main objective of this project is "To minimize the total energy consumption of multiple mobile devices, subject to bounded-delay requirements of tasks."
7	TCPGNS79	Research on Wireless Interference Co-location Method Based on Virtual Nodes (NS2 / Wireless Communication)	The main objective of this project is "To improve the wireless interference localization accuracy, which helps to quickly and accurately locate the interference location and improve the operation and maintenance efficiency of the wireless private network."
8	TCPGNS77	Performance Analysis of Wireless Sensor Networks Under Adverse Scenario of Attack (NS2 / Networking)	The objective of this project is First Come First Serve technique is followed. Suppose two nodes X and Y both sends the connection

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S.No	Project Code	Project Name	Objective
			request to node Z ,then node Z will establish the connection with the node whose message reaches first and request from the other node is rejected. In Rushing attack infested node aims at rejecting duplicate route discovery messages.
9	TCPGNS76	Optimal Privacy-Preserving Probabilistic Routing for Wireless Networks (NS2 / Networking)	The objective of this project is a statistical decision-making framework to optimize the privacy-utility trade-off for routing in wireless networks against a global and informed adversary using the Bayesian maximum-a-posteriori (MAP) estimation strategy. We then formulate linear programs to efficiently compute the optimal privacy-preserving paths under the lossless and loss adversarial models, given a privacy budget.
10	TCPGNS75	On Modeling Shortest Path Length Distribution in Scale-Free Network Topologies (NS2 / Networking)	The objective of this project is, demonstrates, for the first time, that it is possible to create simple and effective Gaussian based models of the shortest path distribution in scale-free network topologies by accounting for the number of nodes only. The accuracy of the proposed models has been further investigated by considering real Internet network topologies, learned from reference data sets.
11	TCPGNS74	Node-Based Distributed Channel Access With Enhanced Delay Characteristics (NS2 / Networking)	The objective of this project is we show analytically and via simulations that NB-CSMA outperforms conventional link-based CSMA in terms of delay for any fixed-size network. We also characterize the fraction of the capacity region for which the average queue lengths (and the average delay) grow polynomial in the size of the network, for networks with bounded-degree conflict graphs. This fraction is no smaller than the fraction known for link-based CSMA, and is significantly larger for a special class of wireless ad-hoc networks.
12	TCPGNS73	PRMN Predictive Location Based Routing For Mobile Nodes In Wireless Sensor Network (NS2 / Networking)	The objective of this project is Wireless sensor network consists of tiny, low cost sensors deployed over

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S.No	Project Code	Project Name	Objective
			a geographic region. Wireless sensors sense information like temperature, pressure, radiation, light etc. Sensed information is transmitted to the base station. There are numerous applications of WSN. Application of WSN includes intrusion detection, environment monitoring, detecting environment parameters, etc.
13	TCPGNS71	Energy-Aware Clustering Algorithms Used in Wireless Sensor Networks (NS2 / Networking)	The objective of this project is wireless sensor networks (WSNs) are defined as a disseminated and mutual network of devices named as sensors which are densely suffused over an area, especially in hard environments .These sensors used to combine data for some phenomena. Each sensor has two main tasks: collecting data and sending that data to the BS node through its neighbour.
14	TCPGNS70	Dynamic Connectivity Establishment and Cooperative Scheduling for QoS-Aware Wireless Body Area Networks (NS2 / Networking)	The objective of this project is, WBANs are inherently mobile in nature, a WBAN architecture inherits the traits of a group-based model, in which each WBAN is composed of several heterogeneous body sensors. Group-based mobility and changes in the body posture of WBANs have serious implications on the performance of WBAN communication, especially connectivity between a WBAN and an AP.
15	TCPGNS69	Cluster Head Selection based on Neural Networks in Wireless Sensor Networks (NS2 / Networking)	The main aim of the project is to achieve "Wireless Sensor Networks, the parameter of the energy is very important, and researches try to optimize the consumption of the power, which is usually impossible to replace it. Sensors node have limited resource of the energy."
16	TCPGNS68	CFTM: A Centralized Fault Tolerant Mechanism for Wireless Sensor Networks (NS2 / Networking)	The main of the project is to achieve a centralized fault tolerant mechanism for WSNs. This mechanism guarantees the recovery of SNs from the failure of CHs and it has been shown to be efficient for the permanent as well as the transient faults.

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S.No	Project Code	Project Name	Objective
17	TCPGNS65	An Analysis of a Large Scale Wireless Image Distribution System Deployment (NS2 / Wireless Communication)	In this project, we describe two setups of a wireless image distribution system using different network architectures.
18	TCPGNS564	Flying Ad Hoc Network: A Newest Research Area for Ad Hoc Networks (NS2 / MANET)	The main objective of this project is "To transfer the data and signals between each other without any human experts and without any physical connectivity between the nodes."

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