

Type of Winner	Team Name	Ministry	#Tag	Problem statement	Solution Title	Description
Winning Team	NAVPRAV ARTAK	Airport Authority of India, Ministry of Civil Aviation	#CA40	https://innovate.mygov.in/challenges/geo-fencing-of-airport-boundary-map-covering-prohibited-and-restricted-area-for-preventing-drone-operation-close-to-airport/	Providing Geo-Fencing Box (GFB) for Regulation of Geo-Fencing in drones	In this proposal, we present GFB, Geo-Fencing Box, a method that could help prevent the drones from entering into restricted areas. GFB is based on using a hardware system which can be used to override the Drone in case an intrusion occurs. Our method will make use of the available GPS and RF systems to detect intrusions and check restricted areas. Thereafter once it is detected that the Drone is inside a restricted area, the hardware override system will kick in and run precautionary mechanism.
First Runner Up	Coders Inc.	Airport Authority of India, Ministry of Civil Aviation	#CA12	https://innovate.mygov.in/challenges/airport-map-guidance-using-vr/	AIRPORT AUTOMATED GUIDING SYSTEM: AAS	AAS is a project based on automation where a human, even with disabilities can travel based on an application designed to facilitate ease of navigation on airports. From entering the airport to the point of boarding a flight, the idea is to remove the dependencies on direction boards and having to ask other people for help. Navigation is based on an app which will use GPS technology and 3D VR maps to accurately reach destinations marked by self made RF detecting sensors to map and tag phones.
Second Runner Up	Horizon	Airport Authority of India, Ministry of Civil Aviation	#CA1	https://innovate.mygov.in/challenges/monitoring-mechanism-for-passenger-throughput-time-at-check-in-counters-and-sha-by-aai-at-airports-2/	Throughput Calculation System	The basic idea is to use object detection to track all the people in the frame of the camera. Now to calculate average waiting time we can simply take the ratio of the time for which the passenger was in the frame and the total number of passengers present in the frame. Further it can be extended to incorporate Suspect Detection System using Facial Features and Deep Neural Nets to accurately find suspects in Airport Premises.
Inspiration Award	CRAFTI	Airport Authority of India, Ministry of Civil Aviation	#CA19	https://innovate.mygov.in/challenges/incident-report-submission/	Incident report submission	Many flights carrying more than passengers take off from 82 Indian airports to land at domestic and international destinations. Safety of these flights and these passengers is of paramount concern. Every incident involving these flights is reported, compiled, collated and analysed to dig deep into the root causes so that necessary steps can be taken to prevent its recurrence. No incident is too small. Long-hand reporting and manual compilation of such voluminous data is tedious. We will make app
Deloitte Innovation Award *	MINIONS	Airport Authority of India, Ministry of Civil Aviation	#CA22	https://innovate.mygov.in/challenges/automated-washroom-cleaning-monitoring-system/	Automated washroom cleaning & monitoring system	Proposed system is an automated monitoring & cleaning alert system which will be able to inform the operator and maintains services log by email and sms about the cleaning. By sensors, will analyzing the different parameter in washroom like number of people use washroom, quality of air, dust or water on floor, tissue use, dustbin filled by garbage, water level in tank, light availability in washroom etc.. define that washroom is cleaned or unclean and control some equipment such

Winning Team	Extrapolate	All India Council for Technical Education (AICTE)	#AIC1	https://innovate.mygov.in/challenges/pr ediction-of-admission-jobs-in-engineering-technology-management-pharmacy-with-respect-to-demographic-locations/	Evaluating Academic Potential: An API Based Approach	An API using Artificial Neural Networks will be designed. Interrelations of various factors influencing the employment potential of a course will be determined and a model based upon Multilayer Perceptron Topology will be parameter-tuned. A predictive model will be trained, tested in the back-end and the user/client will be able to communicate with it on a web based front-end via the API.
First Runner Up	Innovators	All India Council for Technical Education (AICTE)	#AIC9	https://innovate.mygov.in/challenges/knowledge-platform-for-sharing-the-project-works-taken-up-by-the-students-in-Technical-Higher-Educational-Institutes-and-Universities-throughout-the-country/	Knowledge platform for sharing the project works taken up by the students in Technical/ Higher Educational Institutes and Universities throughout the country.	We propose 'Gyaanuday', a web portal, where students will be able to showcase their work and people like venture capitalists, industrialists, scientists and other students can discover the most interesting ones.
Second Runner Up	HexAxle	All India Council for Technical Education (AICTE)	#AIC13	https://innovate.mygov.in/challenges/lack-of-information-about-academic-activities-in-single-platform/	UniPortal	To create a single, responsive platform in the form of a website and mobile app for the key players viz. the proposers and the end-users to collaborate. These key players have to register to the system through a registration module. The administrators validate the key players using their unique id number. Every proposer, while organizing an event can add it to the portal which propagates information about it. The end-user can filter searches based on keywords, themes, categories & locations.
Inspiration Award	CSEKIIT2	All India Council for Technical Education (AICTE)	#AIC11	https://innovate.mygov.in/challenges/open-data-of-universities-is-lacking/	Open Data of Universities is lacking	The analysis of data and information collected from Internet has ended up in enlightening the idea within us to develop a product which would eliminate the gap of interaction between Indian Government and Universities. We have to maintain data of each students using latest technology because student are of a great resource for the not only India's reputation & growth but also economy. Architecture of the proposal defines the authentication, information & data flow between different types of user

Deloitte Innovation Award *	Appslash	All India Council for Technical Education (AICTE)	#AIC4	https://innovate.mygov.in/challenges/online-point-student-verification-through-mobile-application/	The Application Integrating 3 concrete national data repositories and provides	The Working model brings 3 national data repositories under one hood encompassing the Aadhar ID and the Academic data of a student to provide paperless verification facility at AICTE accredited institutions on the go by biometric fingerprint recognition on the cross platform mobile application. Also tracks one's academic qualifications and ongoing, and analyze data to forecast future employment needs as per scenario in the present domains. Notifies on a demanded interest for a course or a job.
Winning Team	BrainTumorRadionomer	Department of Atomic Energy	#DAE16	https://innovate.mygov.in/challenges/radiogenomics/	Radiogenomics	Creating cloud computing based solution, (web-based and android based) for storing Brain MRI images of many patients, facilitating decoding the Tumour Phenotype by large scale data analysis, to be able to detect imaging biomarkers to help determine the risk of developing a disease, effective treatment plan with possible use of Radiogenomics .
First Runner Up	Tech Junkies	Department of Atomic Energy	#DAE13	https://innovate.mygov.in/challenges/ggs-mapping-of-resources-for-crisis-response-system/	QRCS (Quick Response Co-ordination System)	QRCS (Quick Response Co-ordination System) QRCS features include: - Real Time Notification - Crisis categorization [low, medium, high] - Send and Receive Alerts - Real time status update - Aid Traffic Control Room
Second Runner Up	TER-X	Department of Atomic Energy	#DAE9	https://innovate.mygov.in/challenges/blood-bank-app/	Real Time Blood Managing System (RTBMS)	Our Aim is modernizing the facility of donating blood and finding donors as soon as possible so that no one suffers in the case of urgency. For the same, we want to develop an app that will contain the real time database of all the blood banks in your locality stating the units of blood available with its characteristics, real time requisition for blood by individuals. The user can track the nearby hospitals/blood banks and even the events being conducted by them with the help of geo-tracking.
Inspiration Award	Sankalp_S COEPUNE	Department of Atomic Energy	#DAE9	https://innovate.mygov.in/challenges/blood-bank-app/	E-Blood Donation App	To motivate for blood donation and to save emergency patient life we will design this application to create account from interested blood donors and feel their all details with blood group. For More Details Click on below Link:- https://prezi.com/lmwn5vvn1ksi/?utm_campaign=share&utm_medium=copy&rc=ex0share
Winning Team	Alphas	Department of Biotechnology	#DBT4	https://innovate.mygov.in/challenges/explore-videos-expert-lectures-interviews-of-nobel-laureates-bhatnagar-awardees-padma-awardees-ted-talks-etc/	Explore videos/expert lectures, interviews of nobel laureates, Bhatnagar awardees, Padma awardees, ted talks etc.	In our system, we are going to provide a database containing biotechnology videos along with an android/iOS app to efficiently retrieve videos based on the keyword provided by the user. We are also implementing web-crawler for automatically updating the database with downloaded videos from respective websites.

First Runner Up	Nemesis	Department of Biotechnology	#DBT14	https://innovate.mygov.in/challenges/android-based-mobile-app-for-identification-of-impersonation-in-exams-conducted-by-dbt-for-selection-of-jrf-jnu-cet-bitp/	Android based mobile application for identification of impersonation in exams	The above mentioned issue can be solved by linking Aadhar details of a candidate. Every candidate has to provide his Aadhar details while registering for examination. Hall tickets with encoded unique QR code will be provided which will be scanned at examination centers. The invigilator will use the app which will authenticate the candidate by scanning QR code and Finger prints of candidate. If authentication is successful, then the candidate is allowed to appear for exam
Second Runner Up	Nat-Pro Knights	Department of Biotechnology	#DBT14	https://innovate.mygov.in/challenges/android-based-mobile-app-for-identification-of-impersonation-in-exams-conducted-by-dbt-for-selection-of-jrf-jnu-cet-bitp/	Android based mobile app for identification of impersonation in exams conducted by DBT for selection of JRF / JNU-CET / BITP.	The idea is to build the android application with biometric Aadhaar authentication device to detect any impersonation in the exams conducted by DBT for selection of JRF / JNU-CET / BITP using Aadhaar bridge API provided by UIDAI. The proposed exam sub system have middleware and backend with android mobile application. It supports users like admin of exam conducting authority(CEE/JNU), Exam Centre supervisor, Exam Hall supervisor to login, verify the student impersonation in the exam hall.
Inspiration Award	#SNARP	Department of Biotechnology	#DBT9	https://innovate.mygov.in/challenges/dashboard-for-theme-based-aggregation-of-projects-funded-by-dbt-e-g-projects-funded-by-different-groups-on-tuberculosis-is-new-drug-development-diagnostics-kit-vaccine-etc/	TB Research Manager	We plan to build a Web app along with Android App with simplistic and efficient human computer interaction with a personal assistant (using Natural Language Processing and Machine Learning). Effective visualization of the data is our motto by showcasing data in a statistical fashion and carrying out analysis with prediction. There will be separate user interfaces designed for the administrator and user of the application. The details will have an option of English or regional language.

Winning Team	Technofor ensis	Department of Chemicals and Petrochemicals	#DCP1	https://innovate.mygov.in/challenges/skill-development-in-chemical-petrochemical-sectors/	Skill Development in Chemical & Petrochemical Sectors	The ministry under Chemical and Petrochemical Sector will provide a unique username and password to all of its authorized centers using which these centers can enter the details of any approaching person seeking for job with valid documents in national level database. The companies in search of skilled employees will receive the details of a job seeker from the national level database once the job seeker chooses to apply for job in that company from the job portal under that ministry's website.
First Runner Ups	Nihareeka	Department of Chemicals and Petrochemicals	#DCP3	https://innovate.mygov.in/challenges/inventory-of-chemicals/	Inventory of Chemicals	The solution provides a national database of all chemical manufacturers in India with details of chemicals produced / imported / exported and their quantities. The movement of chemicals, particularly hazardous chemicals can be monitored using GPS (Global Positioning System) and secure access is ensured with RFID (Radio-Frequency Identification) technology. Thus, the mentioned solution provides maximum automation and security, with minimum cost of implementation.
Second Runner Up	svs#005	Department of Chemicals and Petrochemicals	#DCP3	https://innovate.mygov.in/challenges/inventory-of-chemicals/	inventory of chemicals	A National database platform will be created by grouping all the interdependent chemical industries and fixing a centralized board to monitor the product and allied product activities of the industries. In implementation work, a centralized board treated as a server which holds a knowledge information using certain tools like html, php with dB. The encrypted and secured data which is to be updated by industries.
Inspiration Award	Team PHOENIX	Department of Chemicals and Petrochemicals	#DCP3	https://innovate.mygov.in/challenges/inventory-of-chemicals/	National Database for Chemical & Petrochemical Product with Real	To collect and Store data in systematic manner in RDBMS, a single Hybrid platform available for all concern with full control Under DCP. Easily Configurable Hybrid API for concern unit so that Data can be captured from their existing ERP/SAP solutions without any extra man-hour and Error. Also manual entry form available where no ERP/SAP exist. A Dynamic Report Design Tool with full access control under DCP, helps easily create, view and publish reports on web without dependency of programmer.
Winning Team	Recon_neuro	Department of Defence Production	#DDP17	https://innovate.mygov.in/challenges/image-based-object-recognition/	Object Detection and localisation using Iterative Neural Networks	We are trying to make an iterative neural network (RNN+CNN) model which can be ideal for detection as well as localization. We have many aerial images datasets available online to train the model like Vedia, Open street Maps. If trained properly the model will provide much better accuracy than any other computer vision algorithm.
First Runner Up	NP-Complete	Department of Defence Production	#DDP16	https://innovate.mygov.in/challenges/video-stabilization-for-unmanned-aerial-vehicles/	Video Stabilization for Unmanned	-UAV live feed is simulated by an Android smartphone. -This jittery video is streamed to the server. -The server outputs jitter-free video in near real time. -OpenCV used for video processing, CUDA used for optimization.
Second Runner Up	CyberForce	Department of Defence Production	#DDP14	https://innovate.mygov.in/challenges/secure-copier-secure-pen-drive-copier/	Secure Copier (Secure Pen drive Copier)	The USB flash drive's firmware to act as HDI (Human Interface Device) called a bad USB. This allows us to reprogram the microcontroller of them to act as a HID / keyboard and perform custom keystrokes on our target machine. By changing the existing patch code in firmware using Phison (PS2251) chip and injector we can achieve these constraints.
Inspiration Award	PowerRangers	Department of Defence Production	#DPP3	https://innovate.mygov.in/challenges/online-gathering-and-analytics-tool/	Real Time Intelligence Gathering and Analytics Platform For Social Media And Online Sources	To build a human-centric SaaS platform that enables the analysis of real time online data. Focus on providing relevant techniques and algorithms to human analysts so as to enable them to draw insights from data through lucid visualizations. Employ a machine learning based approach that conforms to data and helps the analyst in making better decisions. Security enforced by using an isolated intranet for the SaaS. Addl. Features: data/source monitoring, automatic anomaly detection, sentiment etc.

Deloitte Innovation Award *	Codex	Department of Defence Production	#DDP8	https://innovate.my.gov.in/challenges/provisioning-of-group-members-location-chatting/	TalkNTrace: An app that will provide facility of Real-time Location & Chatting with group members	Our app(TalkNTrace) is a location tracking app where one can get real-time location of his/her friends in a group on a single screen. We are providing an Emergency button by which one can send his/her location via SMS to his/her trusted contacts or to the nearby police station/Hospital at the time of emergency. Mainly, our app will be helpful for police and defence department as an authority that can communicate with different groups to trace the criminals from different locations using map.
Winning Team	Black Pearls	Department of Empowerment of Persons with Disabilities	#DEP6	https://innovate.my.gov.in/challenges/bridging-digital-divide/	No Void, Now Voice	An application Interface based on Indian Sign language(ISL) which will enable speaking and hearing easy and effective leading to healthy teaching and learning environment. The application will consist of- Speech to Sign language conversion-Teacher speaks and the tablet/phone at student side converts it into sign language and text. Sign Language to speech conversion-Student communicates through sign language; signs are captured and are converted to speech by the phone hanging in his neck.
First Runner Up	The Fizians	Department of Empowerment of Persons with Disabilities	#DEP3	https://innovate.my.gov.in/challenges/assistive-tools-for-visuallyhearing-impaired/	Visually Controlled vehicle chair for disable person	In our country large number of population is physically challenged. Those disabled people are dependent on some other person to fulfill their daily requirement. To support such motor skilled people EOG based rehabilitation device is a boon, which makes them independent and can make their life easier. Electrooculography is a technology of sensing eye signals and is used efficiently and effectively in developing bio-based human to machine interface. It uses 4 electrodes two for horizontal movement
Second Runner Up	Hastha	Department of Empowerment of Persons with Disabilities	#DEP3	https://innovate.my.gov.in/challenges/assistive-tools-for-visuallyhearing-impaired/	Assistive tools for visually/hearing impair	This project aims to demonstrate the application of the pressure sensitive conductive sheet velostat in the development of cost effective gesture recognition gloves to aid communication for the visually/hearing impaired. Its primary application is to convert hand gestures to sentences on a screen along with the production of speech(voice). The aim is to create an inexpensive wearable device that has the capability to provide an alternate, easier means of communication for the differently-abled.
Inspiration Award	KLNExplorers	Department of Empowerment of Persons with Disabilities	#DEP3	https://innovate.my.gov.in/challenges/assistive-tools-for-visuallyhearing-impaired/	Assistive Tools For Visually/Hearing Impair	The physically impaired people face many problems for catering to their basic needs within their house like identifying the location of an object (visual), reaching a place of need (physical) operating various appliances (visual and physical), etc. The major challenge is mobility which ultimately impacts their overall effective life within their own household. The main problem involves reaching objects for their basic needs like water bottle, food containers, furniture etc.
Winning Team	Latesters	Department of Industrial Policy and Promotion, Ministry of Commerce and Industry	#DIP5	https://innovate.my.gov.in/challenges/an-app-to-provide-enhanced-Google-Alerts-related-to-the-startup-ecosystem/	An app to provide enhanced Google Alerts related to the startup ecosystem	An app to provide alerts based on the updates in the world of startup building a web crawler which crawls certain government and private websites and searches for the keywords like "startup India" and similar others which are indexed based on their release date. The crawler automatically updates its horizon when a new article is released in the pages. This indexed information is given as a notification to the user of the apps with a link to visit the page and the user can also bookmark
First Runner Up	TECH_GEEKS	Department of Industrial Policy and Promotion, Ministry	#DIP1	https://innovate.my.gov.in/challenges/online-dashboard-for-monitoring-meetings/	Online Dashboard for Monitoring	Admin can plan/schedule meetings. Admin can add PDF or other media files for Pre-assignments and tasks for the upcoming meeting. Arrange virtual meeting(Video conferencing). Remind & notify attendees through e-mails, SMS, notification alerts for new meeting and report for tasks from last held meeting.

		of Commerce and Industry		for-monitoring-committee	Committee	Recorded discussion would be converted to text (speech to text conversion). Auto-generated outcome of meeting (Using text summarization technique of Machine learning). Attendees can discuss issue.
Second Runner Up	Creatif Pixel	Department of Industrial Policy and Promotion, Ministry of Commerce and Industry	#DIP6	https://innovate.my.gov.in/challenges/mobile-app-up-gradation-v2-0/	StartUp India App v2	With the flourishing start-up culture in India, there arises a need to guide and allow these entrepreneurs to grow without worrying much about the official formalities. Our team is dedicated to provide a better solution in terms of UX by adding extra features to the already existing app and making it a common platform for Start-ups and Incubators to register, collaborate and gain insights. This way the user can be made aware of the latest schemes and programs to attain maximum benefit from them
Inspiration Award	PageRank	Department of Industrial Policy and Promotion, Ministry of Commerce and Industry	#DIP3	https://innovate.my.gov.in/challenges/enabling-of-live-chat-feature-in-startupindia-gov-in/	Startup India Live Chat	The live-chat application will find use as a credible and simple way for getting information related to startup incubation from investors nearby. The Chat Bot functionality, preloaded with all the data, will efficiently be able to cater to any queries that may arise to the people (Laws and sections towards startups, Government incentives etc.)
Winning Team	BIT HACKERS	Department of Posts, Ministry of Communications	#POS10	https://innovate.my.gov.in/challenges/barcodes-for-dual-purpose/	IMPLEMENTING A BARCODE STRUCTURE FOR POSTAL SERVICES	By implementing PDF417 stacked linear barcode structure which can be printed by already existing printers at the post offices, we can include all the required information such as the PIN code, Aadhar information of recipient and consigner etc. This is going to be extremely useful for AMPC machines, analytics purposes and is easy to implement with the current available resources.
First Runner Up	CLU	Department of Posts, Ministry of Communications	#POS5	https://innovate.my.gov.in/challenges/monitoring-of-bandwidth-performance/	Idea Monitoring of bandwidth Performance	Our Aim is to create a simple, easy to use software solution/web app for monitoring the internet speed at both the user end and also the connectivity and system status of the mailroom server application service for easy diagnosis of the connectivity issue and available bandwidth to the desktop, both locally via the user or remotely by the Support team for routine checkups or as an aid tool while troubleshooting problem
Second Runner Up	TechWhiz	Department of Posts, Ministry of Communications	#POS7	https://innovate.my.gov.in/challenges/select-announcements-by-hardware-inventory-	IOT based inventory management with smart devices and self announcements	An Internet-of-Things based application that enables smooth inventory management, along with seamless tracking of location and repair status of the inventory devices. Post officials are the intended users. By incorporating IOT, the application significantly reduces the manual effort required to maintain inventory, by using a simple yet elegant system of barcode scanning. This saves a lot of time and labor at a very nominal cost. In summary - an IOT-based, responsive web-app for maintenance.
Inspiration Award	AIKATON	Department of Posts, Ministry of Communications	#POS3	https://innovate.my.gov.in/challenges/predicting-the-delivery-of-the-article/	Predicting the Delivery of the article	The solution to the selected problem follows an approach which tries to cover up all the real-time issues. Properly predicting the arrival of the article and informing the addressee about it makes them aware when they will receive it. In case of any emergency, the addressee will get the facility to interact via the system to the Post-office which in turn will notify the post-man. This will help to reduce the wastage of time. Hence it can create a ground-breaking deal.

Winning Team	Team Xpose	Department of Rural Development (DRD)	#MRD15	https://innovate.my.gov.in/challenges/detection-of-plagiarism-and-other-fraudulent-activities-in-post-placement-related-documents/	Xpose	To reduce the act of plagiarism and other fraudulent activities in post placement related docs by using the principles of "MACHINE LEARNING" & "COMPUTER VISION"
First Runner Up	Technocrat	Department of Rural Development (DRD)	#MRD5	https://innovate.my.gov.in/challenges/develop-a-system-that-enables-any-person-in-rural-area-to-proactively-demand-for-work-required-to-be-done-under-mgnregs-recognize-d-work-classifications/	MGNREGS App	Our idea is to make an android interface for effortless submission of work demand, job allocation and tracking. SMS tracking and alerts allow proactive usage in locations without internet connectivity. It is developed keeping in mind the low literacy level of workers and provides alternatives (Voice assistant, color coding, etc) for easy access of app for them. Non-GP employers like farmers etc. can notify job vacancies to GP increasing job opportunities and decreases the state fund involved.
Second Runner Up	CodeHunter	Department of Rural Development (DRD)	#MRD4	https://innovate.my.gov.in/challenges/procedure-to-self-verify-update/correct-individual-details-captured-during-earlier-surveys-for-pmayg-program/	Procedure to self verify, update/correct individual details captured during earlier surveys for PMAY(G) program	Our Idea is very Simple, We are going to provide a mobile service plus UI Service that help us to track information and provide an efficient way to Update PMAY(G) program details of individual candidates. We are going to produce a sample database that include details of individual and we are going to use our service that we have created to automate this process as described in our proposed solution document. We believe using this kind of service is going to help Gramin people to use our service

Inspiration Award	GRAMINUNNAT	Department of Rural Development (DRD)	#MRD19	https://innovate.my.gov.in/challenges/sytem-for-efficient-and-transparent-process-of-buyer-seller-interactions-provision-for-creating-niche-product-offerings-for-shg-groups-for-all-areas/	Unnati Kendra	An ecosystem comprising of a WEB APPLICATION, ANDROID APP and IVR is made available to SHG's so that even if they do not have a smartphone or internet connection they can still access basic information related to buying and selling goods. Also, importance has been placed on training these groups with new skills by providing video tutorials to them. The website itself can be converted to any regional language. Plus, the Android App can be used even if the user is illiterate, making it effective.
Deloitte Innovation Award *	Geeks Squad	Department of Rural Development (DRD)	#MRD17	https://innovate.my.gov.in/challenges/innovative-solution-for-ddu-gky-beneficiaries/	A Machine Learning Application for the DDU-GKY Beneficiaries	The main aim of our idea is to create an application that provides a platform in which the DDU-GKY beneficiaries can interact and get updates from the trainers, employers and the ministry. The application also helps the ministry to get live updates on this entire procedure which will help them evaluate their progress. The application uses machine learning algorithms on the beneficiary's data to predict the areas of improvement, future needs and to get better insights on the scheme.
Winning Team	DIWAM	Department of Science and Technology	#DST8	https://innovate.my.gov.in/challenges/digital-technologies-mis-for-monitoring-water-quality-management-in-water-supply-network-at-district-level/	DIWAM - Digital WQM, Assessment and Monitoring	In order to make WQM cost effective and minimise operation and maintenance efforts, instead of directly testing the quality of water by assessing individual components, we present an approach to test water samples preliminarily for pH, EC along with temperature. We propose to develop a prototype module that will enable a naïve user to decide if sample is to be further tested or if it's safe for a particular usage, saving time and resources and empowering the common man to test for water quality.
First Runner Up	Electrons	Department of Science and Technology	#DST9	https://innovate.my.gov.in/challenges/smart-networks-for-renewable-integrated-sources-for-stand-alone-microgrids/	IoT based Harmonic Measurement, Analysis and Prediction for Microgrids	Idea is to build a harmonic measuring circuit (In voltage/current) from the scratch. This data (%THD & individual harmonics) will be sent over to a remote End Device via Internet. Data Analysis and cloud Storage ensures vibrant features like Probability Distribution function for next day, Alerts in case of crossing limit of IEEE 519 standard, etc. Mitigation measures can also be automatically implemented.
Second	ShockWav	Department of Science	#DST7	https://innovate.my.gov.in/challenges/m	Science Express Web	The idea is to regulate the influx of people visiting the science express by using a Pre-Booking Structure for the schools and individual groups, for specific date, time and venue.

Runner Up	and Technology		anaging-visitors-to-science-express/	Booking System	The idea will be executed with the aid of a Web Application which will run dynamically to book the slots for visiting the science express. The schools will have to pre book their visitation for a given date, after which their time slot will be specified by the administration in Booking Confirmation.	
Inspiration Award	The Resoluton Squad	Department of Science and Technology	#DST3	https://innovate.my.gov.in/challenges/digitised-platform-automatic-response-platform-for-handling-parliament-questions/	Online Platform / Automted Response Platform for handling Parliamentary Questionnaire	This project could be summarized as an online platform,backed by a central database, which will act as an interface between the MPs and various departments to digitize the written questionnaire process of Parliament.Separate logins to the MPs and Departments would be allocated. MPs will have access to modules for creating questions and viewing replies sent by the Departments.The platform will validate the questions and responses based on several logics and can be solved within the allotted time.
Winning Team	FREAK GEEKS	Indian Council of Medical Research (ICMR)	#IMR26	https://innovate.my.gov.in/challenges/creating-awareness-for-stroke-through-gaming-time-is-brain/	STROKE RUNNER	Introducing Stroke Runner a 2-D android game with many incredible levels where player has to run for his life from causes like evil obesity, wicked alcohol etc.Progress through the campaign by dodging the obstructions.A unique chasing boss representing the cause of stroke at each level,if player is caught by the boss before level completion,he will get the stroke and show the symptoms.He will then run into hospital theme to collect medical kits for treatment.Earn and Share rewards with friends.
First Runner Up	PGDBA_IIT_IIM_ISI	Indian Council of Medical Research (ICMR)	#IMR6	https://innovate.my.gov.in/challenges/to-develop-acute-coronary-syndrome-risk-predicting-model-using-mace-sample-data/	RISK PREDICTING AND SURVIVAL MODELLING OF MACE DATA	We have modelled the MACE data for prediction of the type of Myocardial Infarcation. Then on a manually generated time instant data (derived from MACE data) we have modelled the survival analysis. We expect that upon receiving of full data, we would be able to model more efficiently
Second Runner Ups	Bvptechie	Indian Council of Medical Research (ICMR)	#IMR11	https://innovate.my.gov.in/challenges/to-create-a-repository-for-equipments-under-icmr-intramural-program/	Lets fulfill our responsibility towards our digital India. Lets contribute in best possible ways for our nation to grow. Problem:To create a repository for equipments under ICMR's intramural program	We have done a lot of research and have taken care of each and every aspect. Our project is divided into two parts: Website/Portal: 1.Front-end application interface to be operated by users, scientists, researchers and directors. 2.Back-end having a PHP based application handling all incoming requests and business logic. 3.Back-end based API serving Front-end. Android Application: 1.Android application for Android based mobiles supporting Android 5.0+ 2.Back-end based API serving our Android App

Inspiration Award	vectorAiac	Indian Council of Medical Research (ICMR)	#IMR12	https://innovate.my.gov.in/challenges/interactive-application-mapping-pin-codes-of-entire-country/	interactive Application mapping pin codes of entire country	We create an application that work as a search engine or mapping device. That provide interactive environment to find out location using Pin Code , here we are work on a server that will be connected to the device and an online portal , where an organisation can register to a particular pincode and that will be reflected on the server , so that the device can access it
Deloitte Innovation Award *	CML2.0	Indian Council of Medical Research (ICMR)	#IMR1	https://innovate.my.gov.in/challenges/creating-games-for-prevention-of-dengue-and-chikungunya/	Game for prevention of Dengue and Chikungunya	The idea is to create an interactive mobile application game with the novel objective of spreading awareness and educating people about the correct preventive measures to be taken against Dengue and Chikungunya. This game aims to provide a sense of responsibility among the people towards creating a cleaner, hygienic and a disease free environment; thus making our world truly a better place.
Winning Team	Hacker Troops	Indian Space Research Organisation (ISRO)	#ISR53	https://innovate.my.gov.in/challenges/develop-a-solution-for-document-tracking-within-an-organization-network/	DOCurator	The motivation behind this project is to track the file in a centralized repository of data and the documents in an organization.Since the data are present in the centralized repository, they are encrypted using the coke format and making it impossible to tamper. Thus, it can only be decrypted using the Client Side Software called as DOCurator.
First Runner Up	Defenders	Indian Space Research Organisation (ISRO)	#ISR36	https://innovate.my.gov.in/challenges/develop-an-add-on-for-any-popular-open-multi-factor-authentication-add-on-for-OpenVPN	Multi-factor authentication add-on for OpenVPN	Customizing the popular open-source VPN solution "OpenVPN" to enable secure authentication using one-time Password (OTP), private key and bio-metric access integrated. It serves as an add-on for VPN authentication.The Multi-Factor authentication technology is integrated with the VPN and the access to VPN service is provided by verifying the authenticity of the user. This heightens the security of the VPN service and can be easily deployed as an add-on with simple UI and backend.
Second Runner Up	The Artisans	Indian Space Research Organisation (ISRO)	#ISR46	https://innovate.my.gov.in/challenges/implement-secure-data-transfer-using-steganography/	Augmented Reality Steganography-ARSteg	ARSteg is a novel steganography tool that uses Augmented Reality technology for encrypting images. It is a very new approach to the steganography domain as it does not change any properties of the image and that makes it impossible to crack the message behind image without the right application and authentication, It can be used to hide data in physical as well as virtual images. User just needs to select an image that would act as a marker that would contain secret message or secret image.
Inspiration Award	INSIGHT JMI	Indian Space Research Organisation (ISRO)	#ISR9	https://innovate.my.gov.in/challenges/develop-a-solution-for-spam-identification-using-a-novel-approach/	NOVEL APPROACH TOWARDS SPAM CLASSIFICATION	The main issue with any spam classification algorithm and software is that it becomes obsolete after some time and needs to be constantly refurbished considering the ever changing pattern of the data. We propose to improve the accuracy and dynamic nature of spam classification using neural networks.

Deloitte Innovation Award *	Smart Engineers	Indian Space Research Organisation (ISRO)	#ISR2	https://innovate.mygov.in/challenges/determine-the-authenticity-of-the-email-sender-without-using-personal-digital-certificates/	Determine the authenticity of the email sender without using personal digital certificates	when email sent we have put 3 security questions(unique like Aadhar card no) using 3 because probability of answering decreases or otp authentication via mobile so when sender tries to send mail he has to answer security question which have brute force protection or otp before sending, this is for MITM attack when attacker intercepts without security questions but if attacker has email with security question then we put ttl of packets to 1 and for outside network attack we have SPF records.
Winning Team	init_6	Ministry of AYUSH	#AY12	https://innovate.mygov.in/challenges/geographical-location-and-identification-of-Medicinal-Plants/	Geographical Location and identification of Medicinal Plants	Proposed system uses deep learning approach to learn discriminative features from leaf images with classifiers for plant identification. Provided an image of leaves of any species of Medicinal Plants, the proposed system will able to detect and identify the species of respected plant and its location. Prototype will need a picture of leaf of plant of any size, resolution, taken at any time of day for processing the result. System will compare the input image with training dataset.
First Runner Up	Maverick Minds	Ministry of AYUSH	#AY13	https://innovate.mygov.in/challenges/quick-diagnosis-of-skin-diseases/	Skin Disease Diagnostic Application	A portable device application is developed that allow its user to input images related to the disease into a system which after processing the provided images can classify skin disease and also provide appropriate solution. Image of skin disease is taken and various preprocessing techniques are applied onto the provided images for noise removal and image enhancement. This image is segmented by using a segmentation technique i.e. thresholding segmentation. At last, data mining techniques are used
Second Runner Up	AYUSHman Bhava	Ministry of AYUSH	#AY6	https://innovate.mygov.in/challenges/online-consultation-from-AYUSH-experts-of-various-institutes-and-hospitals/	Online consultation from AYUSH experts of various Institutes and Hospitals	The Android application to be featured would allow patients to decide upon the delicate and crucial criteria/matters of good and natural health.The search option lets the patients to be assigned with appropriate consultant/services, further results and guidance is madeavailable through chats(text/video). A supporting external (optional) hardware kit can be used to measure the basic preliminary medical tests as in heart rate, BP, glucose level, body temperature.
Inspiration Award	AYUSH Team Invincibles	Ministry of AYUSH	#AY7	https://innovate.mygov.in/challenges/games-for-propagating-ayush-systems-of-medicine/	Game for the propagation of Health knowledge (AYUSH)	Game for the propagation of Health knowledge (AYUSH) : We will design a game which will consist of various modes , & which will increase the knowledge & awareness of the player about personal health.
						In our solution, the website will operate on 2 user modules: 1. Applicant Module 2. Administrator Module

Deloitte Innovation Award *	The TechBots	Ministry of AYUSH	#AY1	https://innovate.mygov.in/challenges/online-submission-of-grants-applications-and-their-real-time-status-2/	Grant Application Submission & Tracking System	<p>Applicant can fill, print and check the status of the application.</p> <p>Administrator can check & update the status of submitted applications.</p> <p>We will maintain two databases. One database to store applications and another to store authentication details.</p> <p>We will use HTML, CSS, JAVASCRIPT and BOOTSTRAP in designing the front-end, PHP in server-side scripting and MySQL for database management.</p>
Winning Team	Bitcoders	Ministry of Development of North Eastern Region (DoNER)	#NER7	https://innovate.mygov.in/challenges/keeping-track-of-health-of-cancer-	CGO	<p>OUR APP Name is CGO(Cancer Go)This application is basically an android application. This application works over Internet .</p> <p>Technology:-Android, ORACLE, JAVA.</p> <p>ORACLE we will use for the Database</p>
First Runner Up	Stark	Ministry of Development of North Eastern Region (DoNER)	#NER9	https://innovate.mygov.in/challenges/information-regarding-activities-of-various-in-ministries-departments-in-north-eastern-region/	The North-East Portal	<p>The solution that we propose to alleviate this lack of transparency is to create an online portal that showcases the ongoing projects, their status, budget sanctions and all relevant information in an attractively designed and user-friendly website. We are also proposing a mobile application for the same purpose for the ease of users.This will help MoDoNER monitor and keep track of all ongoing projects and get feedback from the people of the North East.</p>
Second Runner Up	DETECT & DIRECT	Ministry of Development of North Eastern Region (DoNER)	#NER5	https://innovate.mygov.in/challenges/monitoring-of-roads-and-projects-through-space-technology/	ROAD MONITORING AND MAINTENANCE SYSTEM	<p>Everybody uses or is affected by the use of roads. Road networks facilitate transport services. In north east roads are the major transport mode. While driver errors such as speeding,drunk driving etc.are among the leading causes of accidents.Dangerous conditions also arise from the poor physical condition of a road and its surroundings.This project aims on detection, identification of these problem faced by drivers, cyclist, pedestrians etc. and transmission of data to maintenance authorities.</p>
Inspiration Award	Matrix.	Ministry of Development of North Eastern Region (DoNER)	#NER4	https://innovate.mygov.in/challenges/explaining-the-famous-products-of-ner/	Explaining the Famous Products of NER	<p>The app will showcase all the famous products of northeast. Users will be able to view products location wise to see what's available in their state. So we are empowering producers by cutting middlemen so that consumers can visit them and buy the product or know more about the product's origin.</p>

Winning Team	Pied Piper	Ministry of Earth Sciences	#MES14	https://innovate.mygov.in/challenges/video-compression-algorithm-for-gsm-satellite-telemetry/	Distributed Video Coding based Video Compression algorithm for GSM & Satellite telemetry	We aim to implement the distributed video coding technique, which is an emerging coding paradigm for the Compression of Video/Image data to be sent via Satellite Telemetry/GSM, with high compression efficiency and resilience to transmission errors. Also instead of using x264 encoding we plan to use x265 encoding format for greater compression.
First Runner Up	haXor	Ministry of Earth Sciences	#MES22	https://innovate.mygov.in/challenges/encryption-decryption-hacks/	FEISTEL-AES SANDWICH	Our algorithm uses a combination of AES and Feistel cipher with RSA for the sharing of the mutual key that is required by the aforementioned combination of symmetric key cryptosystems. The AES+DES cryptosystem involves 4 Feistel rounds sandwiched between layers of AES. This ensures the stubborn resistance that the cipher would offer to attempts at cryptanalysis. Also the RSA encryption for the key is equally hard to crack. This further asserts our belief in this system being difficult to hack.
Second Runner Up	Marine Troopers	Ministry of Earth Sciences	#MES20	https://innovate.mygov.in/challenges/port-management-software/	Port Management Software	Software to identify the ships through their IMO & MMSI Number, Real Time GPS Tracking, Priority scheduling through ant colony algorithm(maintaining Priority Queue), Port efficiency calculation through Data Envelopment Analysis Program, Idle fuel consumption and CO2 emission calculation (results stored in the database)
Inspiration Award	Hexcode	Ministry of Earth Sciences	#MES18	https://innovate.mygov.in/challenges/integrated-portal-for-coastal-ocean-monitoring-and-prediction-system/	Integrated portal for Coastal Ocean Monitoring and Prediction System	The idea we propose consists of two parts. The first is the monitoring of ocean quality. We link up the already existing monitoring stations to a common web,app portal with a centralized database thus making the data available digitally. We also have an idea to build our own ocean coastal monitoring sensors that will collect data continuously and occasionally an underwater drones can be sent to retrieve the data from them and to capture any abnormalities in the ocean. We also monitor shipyards.
Deloitte Innovation Award *	UNICORN	Ministry of Earth Sciences	#MES6	https://innovate.mygov.in/challenges/network-stats/	Web Application for the collection and representation of network statistics on a proxy server.	The Network Stats web application will work on a simple methodology: Data-collection, normalization and storage. Data collection process is based on python script which runs in the background and scans for active connections to the server. Normalization shall extract only the required information from the data fetched, which shall be stored into suitable log files. Customized reports on the statistics shall be displayed using suitable tools.
Winning Team	JAAN HITTA JAARI	Ministry of Electronics and Information Technology (MeitY)	#MTY8	https://innovate.mygov.in/challenges/easy-navigation-system-for-visually-impaired-persons/	Drishti	The Google Maps and Google Text to Speech only provides the route for navigation, and does not give an insight about the live scenario. Our approach targets to build a multilingual GIS platform that will integrate the Live Image Recognition and Processing tool, which will effectively detect live objects, both moving and stationary ones like traffic signals, zebra crossings, moving vehicles, poles etc. making the navigation process easier for the Visually Impaired and reducing road accidents.

First Runner Up	Sushrut	Ministry of Electronics and Information Technology (MeitY)	#MTY4	https://innovate.mygov.in/challenges/networking-inter-connected-healthcare-technology/	Networking (Inter-Connected) Healthcare Technology	Sushrut will be a web portal which will make available the medical history of patient across hospitals on demand through a cloud across the nation. Doctors can access patients medical history if patients are under consultation. Government can analyze the health related data and strategize the necessary measures accordingly.
Second Runner Up	SmartWear	Ministry of Electronics and Information Technology (MeitY)	#MTY2	https://innovate.mygov.in/challenges/electronic-personal-safety-system/	Safety Ensuring Wearable	Safety Ensuring Wearable is a prompt approach towards a universal solution for the problems concerning one's safety and security. Working-women returning late night, children being escorted to schools via pull-car and aged people staying forlorn and forsaken, prove to be soft and easy targets for miscreants to try their hands on them, committing heinous crimes. Thus, we have come up with a unique solution, a friend in disguise, which would notify the registered contacts in case threat is encountered.
Inspiration Award	Team Minsky	Ministry of Electronics and Information Technology (MeitY)	#MTY1	https://innovate.mygov.in/challenges/security-surveillance-system-video-surveillance-analytics/	The Machine: Security Surveillance System (Video Surveillance / Analytics)	There are a lot of CCTV Cameras already installed all over metro cities- streets, government sites, malls across India. This footage from the CCTV cameras is helpful to prove the crime in court but is rarely used to stop a crime from taking place. We would like to propose an artificially intelligent system which summarizes live footage from CCTV cameras from all around the city to check for a crime/accident in real time and alert the nearest police stations or emergency services using call.
Deloitte Innovation Award *	Desire Coder	Ministry of Electronics and Information Technology (MeitY)	#MTY8	https://innovate.mygov.in/challenges/easy-navigation-system-for-visually-impaired-persons/	Smart Stick	Develop an android app based on navigation system which use gps technology and a stick with micro controller and sensor for obstacle detection.
Winning Team	D'ARC	Ministry of Environment, Forests & Climate Change	#MEF17	https://innovate.mygov.in/challenges/digital-solutions-to-evaluate-the-pollution-and-pressure-on-	Water Surveillance System	IOT Based Water Surveillance System offers a viable solution that provides automated supervision over the content of the chemicals in the water. It calculates the chemical content of the water inlets and allow the water to add to the water bodies. Uses solar energy for power source. Will be operated by the concerned authority using application (Mobile or Web Page) which is networked to the Cloud Server.
First Runner Up	DBIT Vikings	Ministry of Environment, Forests & Climate Change	#MEF21	https://innovate.mygov.in/challenges/evaluation-of-health-hazards-and-management-of-electronic-wastes/	Evaluation of Health Hazards and management of electronic wastes	Our solution hereby aims to save mankind and encourage the movement of digitalized India. The technology we will be using is an Android application due to its huge outreach in the present scenario. Our aim is to enable every individual to dispose waste safely with a realization of how much they are saving environment (evaluation of health hazard) and be assure by handing over the e-waste to authorized collection centers enabled by government to eradicate the waste.

Second Runner Up	DREAMER S	Ministry of Environment, Forests & Climate Change	#MEF17	https://innovate.my.gov.in/challenges/digital-solutions-to-evaluate-the-pollution-and-pressure-on-wetlands-and-water-bodies-and-its-conservation/	Digital solutions to evaluate the pollution and pressure on wetlands and other water bodies and its conservation.	This project involves the approach of Internet of Things (IoT) . We are using customized sensor nodes for monitoring the parameters of water like pH , turbidity , temperature , oxidation reduction potential, Dissolved Oxygen etc. The information is going to be level headed constantly and this information will be consigned to the database using TCP protocol and if the tolerable limit is exceeded , a warning will be notified to authorities by IFTTT protocol and twitter API push notification.
Inspiration Award	Tech Samaritan	Ministry of Environment, Forests & Climate Change	#MEF15	https://innovate.my.gov.in/challenges/water-usage-audit-of-household-agricultural-and-industrial-sectors-and-management-plans/	Water Usage Audit for Smart India	Global water problem can be solved by prudent and responsible use. During studies carried out to find out the reason for water scarcity, inefficient water management was identified as one of the major cause. A proper system for water usage audit will help to promote better management plan for water usage in the country. The proposed system will monitor the water consumption per household/agricultural/industrial sector providing useful data and predictions for careful and efficient usage to user.
Deloitte Innovation Award *	Quarks & Leptons	Ministry of Environment, Forests & Climate Change	#MEF16	https://innovate.my.gov.in/challenges/air-surveillance-system-for-air-pollution-monitoring-warning-and-management/	Air Quality Monitoring System	Our inexpensive, low power, portable, efficient device implements an array of various pollutants measuring sensors according to the AQI and with help of IoT to record and observe values from anywhere in the world to analyze data at regular intervals and also warn the general public via broadcasting message if necessary.
Winning Team	Techno Freakz	Ministry of External Affairs	#MEA16	https://innovate.my.gov.in/challenges/email-spoofing-detection/	Email Spoofing Detection	Email spoofing has been the greatest thread in mail communication system. In this system an authentication is provided to the mail when the system is accessed through a new device, under successful authentication the IP address of the system is added to SPF record maintained in the server. Once the mail is sent from the Sender it is transferred to the DNS Server, where the IP address of the device is mapped with the SPF record. Header Analysis mechanism is carried to transfer the mail to receiver.
First Runner Up	221B	Ministry of External Affairs	#MEA9	https://innovate.my.gov.in/challenges/ensuring-access-of-email-and-notes-in-the-smartphones/	PGP end-to-end encrypted mail service	Our solution to the problem is an app client on Android which ensures end-to-end encryption of the messages by integrating the RSA encryption algorithm and by using the concept of public-private key pair to ensure the same. The notes in the user's smartphone will be stored using AES 256 encryption.

Second Runner Up	ENCRYPTERZ	Ministry of External Affairs	#MEA6	https://innovate.mygov.in/challenges/full-proof-security-end-to-end-and-data-security-between-two-web-applications-over-the-networks/	Full-proof security and data security between two web applications over the networks	Encrypt and Decrypt the transmitted data in end to end connectivity between web application through network that cannot be modified even by internet service provider, application service provider and any anonymous.
Inspiration Award	Alstasia	Ministry of External Affairs	#MEA7	https://innovate.mygov.in/challenges/provisioning-of-geo-tagging-information-with-the-e-governance-applications-accessed-globally/	Provisioning of geo-tagging information with the e-Governance applications accessed globally	The solution to this problem is to store the geographical location ,via the geocoder method during login time itself.(without any additional overhead of any sort.) Geocoding is the process of converting addresses (like "\\\"1600 Amphitheatre Parkway, Mountain View, CA") into geographic coordinates (like latitude 37.423021 and longitude -122.083739), which you can use to place markers or position the map.Here the division of local admins pertain them to handle their respective student grievances.
Winning Team	Techsters	Ministry of Food Processing	#FP1	https://innovate.mygov.in/challenges/app-to-connect-farmers-directly-with-retailers-and-food-processing-industries/	Ministry of Food Processing	This webapp establishes a direct link between the farmers and the retailers, in order to eliminate the intermediaries. In doing so, the farmers will receive better returns for their produce, and the retailers can receive quality products at reduced cost. In our app, there will be a list of registered retailers and farmers. Farmers need to publish their products along with the minimum price they expect for them. If the retailers are interested in the product, they can place their bids on them.
First Runner Up	MIND OVER MATTERS	Ministry of Food Processing	#FP4	https://innovate.mygov.in/challenges/a-dashboard-for-investors-to-decide-locations	A dashboard for foreign investors to decide locations	Providing the database to the foreign investors about the availability of the food products in INDIA. In order to simply the solution, information is gathered DISTRICT WISE based on the main availability of a product in each district.
Second Runner Up	NIRMAN	Ministry of Food Processing	#FP1	https://innovate.mygov.in/challenges/app-to-connect-farmers-directly-with-retailers-and-food-processing-industries/	APP TO CONNECT FARMERS DIRECTLY WITH RETAILERS AND FOOD PROCESSING INDUSTRIES	The benefit will empower the farmer and ultimately strengthen the rural economy. Thus, it will distribute the middle mans margin among farmer Retailer or FPIs. Ultimately household will pay lower price.

Inspiration Award	Farm-o-Connect	Ministry of Food Processing	#FP1	https://innovate.mygov.in/challenges/app-to-connect-farmers-directly-with-retailers-and-food-processing-industries/	App To Connect Farmers Directly With Food Processing Industries	The application has been designed in a farmer friendly manner. Every detail that the farmer enters shall be in a speech to text format. The app shall notify him how to use and switch on his internet connection when it is required. Intense use of Data Analytics and Machine Learning has been used to recommend farmers to the FPI and conversely true for the farmers based upon innumerable factors like location, perishability of crop etc. The app shall be designed by considering reduced effort on farmer.
Winning Team	TECHNOC RATES/	Ministry of HRD	#NIO9	https://innovate.mygov.in/challenges/app-for-monitoring-of-the-examination-system/	App for Monitoring of the Examination System	A single common mobile app which provides simple solution to all types of examination conducted in our country. Basically we have used a algorithm for fixing examination center of students such that they get nearest examination center and external examiners & evaluators are allocated center nearest to their corresponding institutes. An app where every faculties can check their duty and payment status from a single common platform. Moreover, all impersonation cases are eliminated providing security.
First Runner Up	IIT DELHI	Ministry of HRD	#NCE5	https://innovate.mygov.in/challenges/solution-to-prevent-copy-right-infringement-piracy-plagiarism-of-ncert-text-books/	Solution to prevent copy right infringement/piracy/plagiarism of NCERT text books	We are working on two case. case 1 Tool to identify the publication is original or the pirated case 2 stopping the plagiarism of NCERT content For solving Case 1 we are using unique approach of QR-Code, we are developing QR code for each and every book and we have a data base which will store all QR Code as a value of sold or not sold. By this approach we have assign every book a number but here number is hidden in form of QR code. When a person is going to buy a book, he/she will scan the QR
Second Runner Up	NIIT Coders	Ministry of HRD	#NIO8	https://innovate.mygov.in/challenges/app-for-intelligent-document-management-system-and-retrieval/	Anvesh - Smart Document Management System	We aim to build a web application software where user can upload the documents (both scanned and digital) into the secure server. These documents can later be retrieved by user searching for any related keywords within the document. The retrieved document can also be downloaded into the user's computer.
Inspiration Award	Standardizers	Ministry of HRD	#CB55	https://innovate.mygov.in/challenges/standardization-of-marks/	Index Factor based Standardization of Marks	The solution proposed is to standardize the marks of any examination in a simple and effective way. This solution is based on an index factor that we have defined as a method. This helps in bridging the gap between students from different boards too.

Deloitte Innovation Award *	Triton-The Encryptor	Ministry of HRD	#NCE3	https://innovate.mygov.in/challenges/software-tool-for-evaluating-performance-of-teachers-by-student/	Software tool for evaluating performance of teachers by student	By this software tool a student can give feedback on the teachers regarding different aspects like teaching ability, attitude towards teaching, classroom management and leadership quality etc. Arbitrary keys will be generated for all students by using this software tool. The feedback analysis of all the students in a specific section/group will be cumulatively averaged and a brief report will be generated. In this software tool the identification of the student will be kept anonymous.
Winning Team	VIER-3	Ministry of Railways	#IR17	https://innovate.mygov.in/challenges/accidents-at-unmanned-level-crossings/	Accidents at Unmanned Level Crossings	The RFID sensor is placed 5 km away from the barrier on both the sides and the RFID tag is mounted on the top of the trains. The transponder placed on poles senses the tags on the trains and fetches the details of train. This collected information will be passed on to the controller. When the train would be 5 Km away from the barrier, the alarm will get activated to alert the nearby passers 500m away from the barrier. pressure sensor is placed at distance of 3 km from the barrier.
First Runner Up	MEC 1	Ministry of Railways	#IR10	https://innovate.mygov.in/challenges/waste-management/	Smart Waste Container	The paper discusses the technical and design aspects in detail and also provides the proposed smart waste container. In our project we are going to design the smart waste container using level sensors and smell sensors to intimate the filled waste container to the authority by a voice call using micro controller and GSM module.
Second Runner Up	Lanisters	Ministry of Railways	#IR24	https://innovate.mygov.in/challenges/distance-preparedness/	Distance tracks	In case of rail accidents, we are going to track the accident spot and send the location through GSM to the server stations. The GPS will give the nearby hospitals, police station, fire brigades locations and GSM will send an emergency message requesting for aids.
Inspiration Award	Tech Infinity	Ministry of Railways	#IR4	https://innovate.mygov.in/challenges/security-app-for-women/	Brave Women Security An App for	Current Application number-1-3323497991 Permanent Institute ID - 1-6552785 Our proposed idea is a personal safety mobile application, Brave Women Security An App for NO INTERNET
Deloitte Innovation Award *	Cerebro	Ministry of Railways	#IR26	https://innovate.mygov.in/challenges/virtual-tour-of-railway-station/	Virtual Tour of Railway Station	For Virtual Tour of station we'll make constellation of 360° navigable panoramas. We are not using videos or images as videos will consume more Memory & alot of bandwidth on ClientSide and images are not that user interactive. User can search for the station from web/android app or use his GPS to start tour of nearest station where all the main facilities can be searched while touring the station. Results of facilities will be sorted as per linear distance from user using Vincenty's/Haversine.
Winning Team	Pioneer	Ministry of Road Transport and Highways	#RH13	https://innovate.mygov.in/challenges/real-time-speed-check/	Vehicle over-speed detection system	Accidents are often reported due to negligence by the road users and over speeding. Combination of image processing and IoT build a smart solution to solve this problem with minimal human intervention. Real time video feed from the traffic camera is processed on the Raspberry pi to detect over-speeding. The photo of the over-speeding vehicle and the vehicle number extracted in text format is uploaded on a cloud storage accessible to the authorities for further action to be initiated.
First Runner Up	Technominds	Ministry of Road Transport and Highways	#RH3	https://innovate.mygov.in/challenges/online-toll-payment-system/	EToll: Instantly Pay Your Toll	EToll provides a fast, secure and accurate approach to online / electronic toll payment.

Second Runner Up	MYSTIC	Ministry of Road Transport and Highways	#RH13	https://innovate.mygov.in/challenges/area-speeding-check/	LOCK THE ACCUSED & OVER SPEED MONITORING WITH EMERGENCY SUPPORT TO THE VICTIM USING IOT	This paper presents a device to detect rash driving on highways. If an accident has occurred at a particular location and it is assumed that two vehicles are involved, then the vibration sensor placed in front of these vehicles senses the vibration and gives the alert to the control server through the zigbee communication. Even if someone who caused the accident happens to escape, then the vibration sensors in vehicle send the corresponding GPS location to the Traffic Cops server via zigbee.
Inspiration Award	The Googlers	Ministry of Road Transport and Highways	#RH4	https://innovate.mygov.in/challenges/mobile-mechanic/	Mobile Mechanic	Mobile Mechanic app with cloud database where the mechanic sign up with their contact details and area of expertise with real time location update for the client to search and find the nearest mechanic for the problem. Similar app are OLA and UBER
Deloitte Innovation Award *	Optimistic Squad	Ministry of Road Transport and Highways	#RH24	https://innovate.mygov.in/challenges/weight-of-vehicle/	TRUCK ALERT	We come up with the idea that Similar to the Truck/Vehicle details in that database we can add some more details like actual weight of the empty Truck/Vehicle, legal limits allowed and Present Truck's weight in motion using WIM (Weight In Motion) system and it is updated to the Corresponding Truck's RC number in the same database. An Alert is sent to the competent authority if the present Truck's load is higher than legal limits of the Truck.
Deloitte Innovation Award *	Teslaa	Ministry of Road Transport and Highways	#RH3	https://innovate.mygov.in/challenges/online-toll-payment-system/	QUICK TOLL PAY	The solution involves the use of RFID technology, installing the RFID cards onto the vehicles such that when vehicle in range of the RFID reader the mobile application urges the user to make the payment online at real time or later. On the completion of this step a QR code would be generated, and at the toll booth the driver can directly pass by showing this electronic generated bill with QR code onto the scanner at the booth.
Winning Team	e-LEMONATORS	Ministry of Skill Development & Entrepreneurship	#MSD10	https://innovate.mygov.in/challenges/skill-india-app/	Skill India App	To bring together skill enhancers and aspiring youths
First Runner Up	PIET - RAMAN	Ministry of Skill Development & Entrepreneurship	#MSD25	https://innovate.mygov.in/challenges/national-entrepreneurship-internship-exchange/	National Internship Exchange	We have decided to make a web-portal for this problem. This portal will act as a bridge between the businesses looking for the workforce and the individuals looking for work according to their skills. This portal will also help the small-businesses and startups to seek assistance in business development, planning etc., ultimately helping them to grow. So, this web-portal will help the businesses to deploy the right people at the right job and help them track the performance of their employees.
Second Runner Up	CodeTractors	Ministry of Skill Development & Entrepreneurship	#MSD6	https://innovate.mygov.in/challenges/pmkvy-dynamic-training-calendar-app/	PMKVY dynamic training calendar app.	A user friendly, multi lingual android app to help students and employers find nearest PMKVY training centers with courses and batches information (using GPS).

Inspiration Award	Path Pradarshak	Ministry of Skill Development & Entrepreneurship	#MSD17	https://innovate.mygov.in/challenges/creation-of-e-information-cell-for-providing-skill-training-related-information-which-can-be-disseminated-to-all-schools-for-providing-necessary-career-guidance/	Creation Of E-Information Cell for providing Skill Training related information which can be disseminated to all schools for providing necessary career guidance.	Our solution is development of web based android application with the working as:-On starting the app, student must login (or register).It will display career choices available in different sectors.The student may select any one of them, then following services will be offered :Selection of courses, Emerging demand and job prospects for that choice, access(where training is available),details of the training courses,estimated wages, Career progression, scope, Book links with the expert help.
Winning Team	Team Tesla	Ministry of Steel	#MS11	https://innovate.mygov.in/challenges/mobile-app-for-reducing-power-theft/	Mobile App for reducing Power Theft	Power theft can be minimized by integrating of two theft detection systems. An Artificial Intelligence based power tapping detection system that profiles a consumer's power usage and detects anomalies in their usages. And a system for users to send location data along with images to a central server to complain about possible thefts has been added. After receipt of such complaints, government officials can inspect the location.
First Runner Up	PEC WARRIORS	Ministry of Steel	#MS12	https://innovate.mygov.in/challenges/automatic-system-to-power-off-street-light-in-day-time-powering-off-alternate-street-lights-at-mid-night/	AUTOMATIC STREET LIGHTS	We presented a very economical and accurate solution for the given problem. It can be installed in the already existing street lights without altering preinstalled components.
Second Runner Up	ENIGMA	Ministry of Steel	#MS30	https://innovate.mygov.in/challenges/application-for-monitoring-deployment-of-manpower-by-contractors/	Application for monitoring deployment of manpower by contractors	We propose to develop a mobile application that would be used by different contractors and would be monitored by the respective administrators. The app would serve the following purpose:- 1. Track the manpower actually deployed by the contractors, with the use of aadhar card and biometric input(finger-print) from the worker and matching it with the data maintained in the database. 2.The app would also generate deployment reports and also the complete details of the workers and contractors.

Inspiration Award	Smart Jharkhand	Ministry of Steel	#MS12	https://innovate.mygov.in/challenges/automatic-system-to-power-off-street-light-in-day-time-powering-off-alternate-street-lights-at-mid-night/	Automatic System to Power-off Street light in day time/ Powering off alternate street lights at midnight.	using microcontroller we can turn off alternate street lights in the midnight automatically and using photocell we turn on and off the street light in day and night automatically.
Deloitte Innovation Award *	HackStorm	Ministry of Steel	#MS23	https://innovate.mygov.in/challenges/hacking-of-website/	HACKING OF WEBSITE	We Will Use Various Encryption Standards to secure Your Website which is also hacked By Me.
Winning Team	Pausch Lab at Next Tech	Ministry of Tourism	#TOU4	https://innovate.mygov.in/challenges/smart-solution-for-providing-commentary-of-exhibits-in-Museum	ARTifacts : A Smart solution for providing commentary of exhibits in Museum	We propose an interactive Mobile Application for enhancing on-site museum and art gallery experience through Augmented Reality technology. This experience can not only promote the social and educational roles of traditional museums in the digital era but also boost the value of cultural heritage. Our objective is to design an on-site personalized museum recommendation system to extend the connection between visitors and collections, focusing on the user experience.
First Runner Up	TIKSHNAY ODHA	Ministry of Tourism	#TOU4	https://innovate.mygov.in/challenges/smart-solution-for-providing-commentary-of-exhibits-in-Museum	MUSEUM E GUIDE	"Beacon and QR code" technologies integrated with the artifact(s) are being used in our multilingual Application. Users shall be notified if there are any artifacts nearby via Beacon or they can manually use the QR code. App is empowered with time scheduler which act as a virtual guide. It also includes interactive features like Augmented reality, Real time tracking and feedback system. It will mitigate fraudulent activities, irrelevancy of contents and improve the present scenario of tourism.
Second Runner Up	IGNITED EXODUS	Ministry of Tourism	#TOU5	https://innovate.mygov.in/challenges/application-for-mapping-of-trekking-routes-in-the-himalayas-giving-details-of-accommodation-facilities-banks-hospitals-eateries-real-time-information-on-weather-and-other-relevant-information-requir	TREKAHOLICS	Trekaholics is an app that provides support to the trekkers by providing all relevant information from monitoring health to helpline numbers, from mapping the routes to managing emergencies, weather updates etc in any platform. Specific packages can be downloaded for localised mapping in offline mode. It can be connected to the ministry of tourism and monitored using aadhar or ssn numbers.
						We are proposing a cross platform app for SAFETY & SECURITY of Single Woman Traveler

Inspiration Award	TEAM HEXACOR E	Ministry of Tourism	#TOU1	https://innovate.mygov.in/challenges/development-of-simple-user-friendly-and-effective-application-for-safety-and-security-of-single-woman-traveler-in-india-application-should-be-compatible-on-all-platforms/	<p>JHANSI : THE WOMAN SAFETY APP</p>	<p>By including various features we are tackling common problems faced by single woman traveler.</p> <p>Features</p> <p>1)GPS Tracking</p> <p>Unsafe Area Monitoring,</p> <p>Best Possible Safe Route</p> <p>2)QR Code</p> <p>3)Shake to Alert</p> <p>4)Buzzer at Distant</p> <p>5)Safety Tips</p> <p>6)Friends Circle.</p> <p>These Features will prove as Digital Solution for Safety and Security of Single Woman Traveler & will decrease CRIME AGAINST WOMAN and will increase TOURISM Of INDIA.</p>
Deloitte Innovation Award *	HEXA	Ministry of Tourism	#TOU4	https://innovate.mygov.in/challenges/smart-solution-for-providing-commentary-of-exhibits-in-museum-in-india/	AR based Museum Commentary	<p>We will be using the Augmented Reality (AR) Technology for solving this Problem. This technology works with help of Markers, In this case we can use the Photographs of exhibits as marker, which will be printed on Brochure. When we will move the phone over the marker, the Audio will start playing. By this method we can have the audio info of all the Exhibits and every visitor can hear it Separately. Also for additional info he can raise Query, which will be answered by Museum later on via E-mail.</p>
Winning Team	TechnoTwisters	NCPCR	#NCP2	https://innovate.mygov.in/challenges/non-availability-of-teachers-in-government-schools/	Shikshak Arohan - Chalo Padhaye Desh ka Bhavishya Banaye	<p>We aim to solve the problem by digitising the process of updating the vacancies and providing study material to teachers for updating their knowledge through our android app and web application which is easy to use and efficient. The issue of absenteeism will be solved by tracking the location of teacher by using GPS of the phone. We believe that one of the most critical factor in India's growth is educating the youth of the country. We hope that our solution helps in this regard.</p>
First Runner Up	INGENIOUS	NCPCR	#NCP8	https://innovate.mygov.in/challenges/information-on-all-child-related-acts-on-one-platform/	NCPCR-Child rights violation related news on one portal.	<p>We are proposing a website as a solution which will have following features:-</p> <p>1)Latest News from all over India. 2)Searching of News on the basic of any problem and state and city wise news can also be searched.</p> <p>3)Graphical analysis of news.4)If a problem is arising repeatedly in a city than website will alert NCPCR about that city 5)Link to various NGO'S , NPO'S and other child related organisations.5)Secured for NCPCR 6)News can also be shared with other organisations on permission.</p>

Second Runner Up	Web Samaritans	NCPCR	#NCP16	https://innovate.mygov.in/challenges/grievance-redressal-mechanism-related-to-child-health-and-nutrition-at-ncpcr/	Advanced Grievance Database	The Web Application will be asking the users to submit their grievances and categorise them under a pre defined category list. This category list will help resolve correlated issues easily. The Web Application will be using advanced statistical tools so that the stake holders like the ministries (Eg. Ministry Of Health And Family Welfare , Minister Of Ayush, etc.) can easily visualise the submitted queries.
Inspiration Award	VisionArray	NCPCR	#NCP8	https://innovate.mygov.in/challenges/information-on-all-child-related-acts-on-one-platform/	Child Acts	Our solution presents a cross-platform, offline-ready, intuitive and easy-to-use mobile/web application which beautifully illustrates all the child-related legal acts enforced in India along with their most recent amendments and related developments.
Deloitte Innovation Award *	BITSTREAMERS	NCPCR	#NCP6	https://innovate.mygov.in/challenges/functioning-of-school-management-committees/	Functioning of School management Committees	To make a website that would be used by the Authorities at the national and state level that monitor the implementation of the RTE Act by the SMCs. The authorities, using this website would be able to monitor the work and progress of the SMCs. SMCs, on the other hand, would update their work and developments on the website. We would also make a mobile app for the SMCs so that they are able to update their information even through that.
Winning Team	smart onion group	Students' Voice	#CV1	https://innovate.mygov.in/challenges/high-power-cameras-to-scan-speeding-cars/	smart onion warehouse	Now a days there is large demand for Onions, Even onions are stored and kept for the future use of customer. When Onions are stored many times there is chance of getting vitiated due to infections, temperature. There is no system design to protect the onion from all these causes. So the aim is to design the system that will protect the onion from getting infected, perished and many more. So the proposed system is Internet of Things (IoT) based which include sensors and arduino kit
First Runner Up	AMRAPPE RS	Students' Voice	#CV1	https://innovate.mygov.in/challenges/high-power-cameras-to-scan-speeding-cars/	Medical Assistance Support System.	We intend to enhance the poor healthcare conditions of rural areas via our proposed system MASS using the technology of Artificial Intelligence. Our system majorly focuses on helping people residing in the remote areas. Delay in the primary medical aid is responsible for the high mortality rate in rural areas. MASS is designed as a solution to this root cause and thus will be a boon to the medical as well as technological field.
Second Runner Up	Team-Anonymus	Students' Voice	#CV1	https://innovate.mygov.in/challenges/high-power-cameras-	License Integrated Safety Device	We have developed a device which ensures the safety of vehicles by scanning the license and also allows the owner to track the vehicle at any given time. We have also included a safety feature for recovery of vehicle in case the owner loses his license and his vehicle is stolen.

				to-scan-speeding-cars/	Device	This device also ensures that no individual is allowed to drive a vehicle without a valid license. The device also maintains records of the vehicles previous trips and whereabouts.
Inspiration Award	Technostars	Students' Voice	#CV1	https://innovate.mygov.in/challenges/high-power-cameras-to-scan-speeding-cars/	Making lakes free from solid waste and purifying the water	We will remove solid waste from lakes and also purify water. This is performed with the help of automatic boat which is connected with sensors, motors, GPS tracking, Microcontroller and Image Processing Techniques.
Deloitte Innovation Award *	ArishthaPath_Team	Students' Voice	#CV1	https://innovate.mygov.in/challenges/high-power-cameras-to-scan-speeding-cars/	ArishthaPath Have your safe roads	ArishthaPath is a kit consisting of sensors (pressure, jerk, water, gas) to sense an accident along with GPS, GSM and Arduino. In case of accident, the proposed system is able to detect it automatically by the kit and also able to send the exact location to a GOOGLE MAP API. The Google MAP API is accessible to the authorised people. Ambulance service providers can access it to provide faster service as the accurate location is shown on the map API. It works without human interaction.
Winning Team	Stealth Striker_BC ET_GSP	University Grants Commission (UGC)	#UGC6	https://innovate.mygov.in/challenges/integrating-different-digital-platforms-providing-information-on-higher-education-to-the-public/	Integrated Information system of Educational Institutes	The noetic conception of making Integrated Information system of Educational Institutes (IISEI) is to break the isolation of different digital platforms of government providing the information regarding Educational Institutes and its policies. This can be achieved by developing an integrated website which has the web crawler that crawls all the target websites link by link and collecting information from there and store it in the database.
First Runner Up	Baby	University Grants Commission (UGC)	#UGC19	https://innovate.mygov.in/challenges/identification-of-fake-universities	University Identification System (UIS)	UIS is an online portal system stands for University Identification System which will show the public profile of the University created by the UGC by assigning unique alpha-numeric code to every authorized University. This code will be publicly available to check the profiles of the universities about their authorization and approved programs.
Second Runner Up	deepMind	University Grants Commission (UGC)	#UGC2	https://innovate.mygov.in/challenges/academic-time-table-management-tool-under-cbcs/	Academic Time-Table Management Tool under CBCS	The solution proposed will generate timetable for the universities in an optimal way. This would generate a timetable in which the classes are arranged in the best possible way with minimum effort.
Inspiration Award	Zenith	University Grants Commission (UGC)	#UGC2	https://innovate.mygov.in/challenges/academic-time-table-management-tool-under-cbcs/	Academic Time-Table Management Tool under CBCS	Genetic algorithm is providing one of the best solutions for efficient timetable generation. Proposed tool can easily eliminate conflicts like timeslot, location, class, no any lecture on holidays. The separate timetable for faculty and student will be generated, that will get in the form of excel sheet.

Deloitte Innovation Award *	SMSVNSTI TANS	University Grants Commission (UGC)	#UGC1	https://innovate.mygov.in/challenges/institutional-funding-operational-management-solution/	IFOMS (Institutional Funding Operational Management Solution)	To get the solution of operational management of institutional funding, our team has decided to develop a web application with concept of ATAW (Any Time Any Where).
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