SIH 2020 - Problem Statements-Software-Part 1 + 2

S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
1	CDK Global	Portal for Farmers to sell the produce at a better rate	Software	RA27	Agriculture and Rural Development
2	CDK Global	Crop Guidance and Farmers Friend • Problem Title: Helping the farmers in terms of Crop suggestion, precautions based on the met department forecast of rain fall / weather, potential pest attacks, weather warnings etc.	Śoftware	RA28	Agriculture and Rural Development
3	Central Ground Water Board, Ministry of Jal Shakti	Assessment of land holding pattern, source of irrigation, cropping pattern and depth of the wells in different parts of the country	Software	DM83	Agriculture and Rural Development
4	Gov of Uttarakhand	Lack of technological intervention in value addition of agriculture products produced by SHGs /FPGs	Software	MK100	Agriculture and Rural Development
5	Ministry of Agriculture Cooperation and Farmer Welfare	The position of an object in the air can be indicated by latitude, longitude and altitude for a given time. A trajectory is a stream of such quadruples(time, latitude, longitude and altitude) Given a large set of such trajectories, without any other information, problem is to cluster them into meaningful objects such as Helicopter, Fighter/civilian Aircraft, UAV, Cruise Missile, dropped bomb etc. An optimal scalable solution is desired using open source tools.	Software	SB109	Agriculture and Rural Development
6	Dr. B R Ambedkar Institute of Technology	Software for computerization of farmer, land details along with beneficiary schemes details	Software	DS157	Agriculture and Rural Development
7	Ministry of Rural Development	Automatic Assessment of Pavement condition based on road photographs	Software	MK199	Agriculture and Rural Development
8	Ministry of Rural Development	One Nation – One Citizen – One Pension – Identify citizens receiving multiple benefits like pensions under different schemes of the centre and state, such as NPS, NSAP Schemes, PMSYM and State level schemes	Software	MK207	Agriculture and Rural Development
9	Govt. of Bihar (DOA)	Estimation of crop progression	Software	NS269	Agriculture and Rural Development

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
10		Estimation of crop yield using modern ICT tools which is quick and reliable for making a realistic plan for procurement and to compensate farmers for yield loss if any.	Software	NS270	Agriculture and Rural Development
11	Indian Space Research Organisation (ISRO)	Extraction of crop cycle parameters from multi-temporal data	Ŝoftware	NM372	Agriculture and Rural Development
12	GAIL	Process Modeling	Software	BK224	Energy / Renewable Energy
13	GAIL	Blockchain Powered Procurement System for GAIL	Software	BK225	Energy / Renewable Energy
14	GAIL	Design of alarms management and analytics	Software	BK226	Energy / Renewable Energy
15	Ministry of Petroleum and Natural Gas	Technological advances for Retail Outlets	Software	AJ128	Energy / Renewable Energy
16	Indian Space Research Organisation (ISRO)	Detecting clouds and predicting their movement from INSAT imagery	Software	NM373	Energy / Renewable Energy
17	Ministry of Women and Child Development	In PFMS implementation, NGOs registration may be approved by the concerned Ministry within a specific period. Otherwise, it should be deleted/rejected automatically by the PFMS portal itself. So that fresh registration can be done again by the implementing agency. For committed expenditure like salaries, pensions etc, direct link for sanction and release of funds to the Autonomous bodies to be made on quarterly basis. However, while considering final release UC/Account and UB be taken care of.	Software	AS37	Finance
18	Ministry of Women and Child Development	In PFMS implementation, NGOs registration may be approved by the concerned Ministry within a specific period. Otherwise, it should be deleted/rejected automatically by the PFMS portal itself. So that fresh registration can be done again by the implementing agency. For committed expenditure like salaries, pensions etc, direct link for sanction and release of funds to the Autonomous bodies to be made on quarterly basis. However, while considering final release UC/Account and UB be taken care of.	Software	AS37	Finance

SIH 2020 - Problem Statements-Software-Part 1 + 2

S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
19	Ministry of Housing and Urban Affairs	Cities provide more opportunities for people to grow economically. However, these opportunities are unequal because of knowledge asymmetry. How can we ensure that people have more equal access to better economic opportunities/ jobs?	Software	BC79	Finance
20	Ministry of Food Processing Industries	App Development on Food Processing Problems	Software	BK169	Food Technology
21	Bajaj Fin Serv	Gamification for Health data collection	Software	CH46	Healthcare & Biomedical Devices
22	Bajaj Fin Serv	Lab Report Digitization / OCR	Software	VA47	Healthcare & Biomedical Devices
23	GE Healthcare	Virtual Assistant for Medical Device	Software	UP176	Healthcare & Biomedical Devices
24	Ministry of Health and Family Welfare	Digital tracking of children of migrant population to follow-up on their health status and immunization services received/to be given.	Software	SS41	Healthcare & Biomedical Devices
25	Ministry of Health and Family Welfare	Emergencies and disasters impact population health. Public health plays a critical role in working with health and non-health sectors responsible for preparing for and responding to emergencies. In emergencies, large numbers of people may require medical attention. Health care systems may be over-stretched, and public order may be threatened. Hence use of social media in public health emergency response.	Software	SS42	Healthcare & Biomedical Devices
26	Ministry of Health and Family Welfare	Use of Al based Chat bots for providing health related information	Software	SS43	Healthcare & Biomedical Devices
27	Ministry of Health and Family Welfare	Leveraging block chain technology for creation of Electronic Health Record (EHR)	Software	SS45	Healthcare & Biomedical Devices
28	Ministry of Health and Family Welfare	Digital tracking of children of migrant population to follow-up on their health status and immunization services received/to be given.	Software	SS41	Healthcare & Biomedical Devices

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
29	Ministry of Health and Family Welfare	Emergencies and disasters impact population health. Public health plays a critical role in working with health and non-health sectors responsible for preparing for and responding to emergencies. In emergencies, large numbers of people may require medical attention. Health care systems may be over-stretched, and public order may be threatened. Hence use of social media in public health emergency response.	Software	SS42	Healthcare & Biomedical Devices
30	Ministry of Health and Family Welfare	Use of Al based Chat bots for providing health related information	Software	SS43	Healthcare & Biomedical Devices
31	Ministry of Health and Family Welfare	Leveraging block chain technology for creation of Electronic Health Record (EHR)	Software	SS45	Healthcare & Biomedical Devices
32		People come to cities because of better health facilities as well. What should be done to improve the health facilities in the city and also provide equitable access for all?	Software	ВС77	Healthcare & Biomedical Devices
33	Department of Atomic Energy	Fiducial localization for pre-operative planning in neurosurgery	Software	PC86	Healthcare & Biomedical Devices
34	Gov of Uttarakhand	Primary health care in remote areas using Cloud medicine and Diagnostic Services	Software	MK91	Healthcare & Biomedical Devices
35	Government of Andhra Pradesh	Livestock Health Database	Software	KB196	Healthcare & Biomedical Devices
36	TCI	PREDICTION OF TARIFF RATE	Software	PU131	Miscellaneous
37	Central Ground Water Board, Ministry of Jal Shakti	Data analytics to provide complete solution for groundwater management for the country	Software	DM84	Miscellaneous
38	Dte of IT & Cyber Security, DRDO	Tool to recover Flash memory data	Software	CK116	Miscellaneous

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
39	Ministry of Women and Child Development	Effective use of Cyber Space and Cyber Technology to prevent violence against and trafficking of women and children	Software	AS120	Miscellaneous
40		Simplification of the process of e-tendering in EVC (electronic verification code) system, replacing Digital Signature Certificate by Aadhaar based OTP.	Software	DB126	Miscellaneous
41	Dte of IT & Cyber Security, DRDO	CAPTCHA/alternative solution for Visually impaired	Software	CK146	Miscellaneous
42	Department of Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment	Problem Statement From PDUNIPPD (Software)	Software	PD150	Miscellaneous
43	Central Water Commission, Ministry of Jal Shakti	Embankment Mapping and Crowdsourced Health Card for Preventive Structural Measures	Software	SK153	Miscellaneous
44	Central Water Commission, Ministry of Jal Shakti	Water Accounting in Irrigation Commands through Crowd Sourced Crop Mapping	Software	SK155	Miscellaneous
45	Dr. B R Ambedkar Institute of Technology	Development of App to capture the field patrolling track of frontline staff in their forest beat jurisdiction	Software	DS164	Miscellaneous
46	Govt of Puducherry	Job recommender system. To design a software application for assessing the abilities of a student with respect to employability.	Software	DK180	Miscellaneous
47	Ministry of Tribal Affairs	Development of repository of tribal youth talent from various areas such as sports, arts, paintings, dance, culture, social service or any specific area.	Software	DN262	Miscellaneous
48	Indian Space Research Organisation (ISRO)	Nowcasting of Meteorological Satellite Images using AI/ML techniques	Software	NM374	Miscellaneous

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
49	Ministry of Power	Monitoring the battery life of Electric Vehicles.	Software	LN382	Miscellaneous
50	Indian Space Research Organisation (ISRO)	GNSS Reflected Signal Coverage Simulator	Śoftware	NM387	Miscellaneous
51	Indian Space Research Organisation (ISRO)	Hyperspectral image analysis tool	Software	NM388	Miscellaneous
52	Indian Space Research Organisation (ISRO)	AI/ML based system for deriving value added parameters using satellite surface observations	Software	NM390	Miscellaneous
53	Indian Space Research Organisation (ISRO)	Reconstruction of missing data in Satellite Imagery	Software	NM391	Miscellaneous
54	Indian Space Research Organisation (ISRO)	Depth Estimation of Valles Marineris using ISRO's Mars Color Camera (MCC) images	Software	NM392	Miscellaneous
55	Indian Space Research Organisation (ISRO)	Field Data Analysis and Automated feature validation from crowd sourced field photos;	Software	NM393	Miscellaneous
56	Indian Space Research Organisation (ISRO)	Sentiment Analysis from text feedback:	Software	NM396	Miscellaneous
57	Indian Space Research Organisation (ISRO)	Voice command driven Web-GIS Applications (mobile/ desktop)	Software	NM397	Miscellaneous
58	Indian Space Research Organisation (ISRO)	Efficient Communication scheme for Human Space Flight Programme	Software	NM399	Miscellaneous
59	Indian Space Research Organisation (ISRO)	Link Adaptive Speech Compression scheme for Human Space Flight Programme	Software	NM400	Miscellaneous

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
60	Indian Space Research Organisation (ISRO)	Blind Scrambling Code Identification	Software	NM401	Miscellaneous
61	Indian Space Research Organisation (ISRO)	Efficient Header Compression technique for IP based communication over Satellite network	Śoftware	NM402	Miscellaneous
62	*	Customized Web-based animation for data cube, volume rendering and time series data visualization	Software	NM403	Miscellaneous
63	Indian Space Research Organisation (ISRO)	Size Invariant Ship detection from SAR Images	Software	NM404	Miscellaneous
64	Indian Space Research Organisation (ISRO)	Ethical hacking for extraction of restricted GNSS signal features	Software	NM406	Miscellaneous
65	MIXORG	Create an affordable solution through image processing of number plates of vehicles for the detection, identification and monitoring of vehicles in different senarios such as residential societies, tolls, business complex, parking spaces etc.	Software	CB31	Security & Surveillance
66	Dte of IT & Cyber Security, DRDO	Video based dynamic human authentication system for access control	Software	CK107	Security & Surveillance
67	Dte of IT & Cyber Security, DRDO	Clustering of Air objects based on trajectory	Software	CK108	Security & Surveillance
68	,	Identification of optimal set of multiple interceptor launch areas to maximise the destruction of multiple air targets	Software	CK115	Security & Surveillance
69	Directorate of Technical Education Chandigarh	Tracking and Control of inmate inside the Jail	Software	SS134	Security & Surveillance
70	CBSE	How to prevent cheating in exams?	Software	DA178	Security & Surveillance

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
71	NATIONAL CRIME RECORDS BUREAU	Artificial Intelligence (Al) and Machine Learning solutions for Police functions	Software	SK213	Security & Surveillance
72	NATIONAL CRIME RECORDS BUREAU	Data Crawlers to collect data	Software	SK216	Security & Surveillance
73	Govt. of Madhya Pradesh	Face, expression and gesture recognition and compilation in database software	Software	MS331	Security & Surveillance
74	Govt. of Madhya Pradesh	Textile (clothes) recognition and compilation in database software	Software	MS332	Security & Surveillance
75	Govt. of Madhya Pradesh	Baggage and other accessories recognition and compilation in database software	Software	MS334	Security & Surveillance
76	Govt. of Madhya Pradesh	Identification of suspects based on their gestures, gait, BMI (Body Mass Index) and motions or objectionable/ illegal/ improper behavior and gesture of the police (Datasets will be provided on request)	Software	MS335	Security & Surveillance
77	Indian Space Research Organisation (ISRO)	Drone route planning	Software	NM383	Security & Surveillance
78	Ministry of Housing and Urban Affairs	Our cities are expanding and most of the people have to travel more than 2 hours daily to commute between their place of work and stay. How can we reduce this time?	Software	BC71	Smart Cities
79	Ministry of Housing and Urban Affairs	Disasters act as a shock to density. Cities of tomorrow What should be done?	Software	BC78	Smart Cities
80	Gov of Uttarakhand	Smart intelligent traffic accidents monitoring systems	Software	MK104	Smart Cities
81	Dr. B R Ambedkar Institute of Technology	Incentivized Tech Bin	Software	DS170	Smart Cities

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
82	CDK Global	Better and faster emergency care during accidents and vehicle impact.	Software	RA25	Smart Communication
83	Bureau of Police Research & Development	LEA & Judiciary Interactive Case Management System	Software	RK61	Smart Communication
84	Department of Atomic Energy	Network routing protocol for infrastructure less gateway devices in man-made	Software	PC87	Smart Communication
85	Ministry of Petroleum and Natural Gas	Technological advances for Retail Outlets	Software	AJ129	Smart Communication
86	Dte of IT & Cyber Security, DRDO	Timing error estimation and matched filtering are crucial processing blocks in a communication receiver. The problem is like looking for the occurrence of a known signal in the observed/measured signal, which is noisy and distorted. This nature of problem makes it best suited for intelligent approach, as human brain invariably solves this kind of problem in day-to-day life. Classical techniques like maximum likelihood, Early-Late, Gardener and Muller approaches have been successfully implemented. However, it is perceived that machine learning techniques will outperform the classical approaches and this fact needs to be researched. The neural network shall use minimum computation and converge fast for practical and real-time implementation. If the results are promising, it can be applied for military and commercial radars.	Software	CK132	Smart Communication
87	Government of Andhra Pradesh	solutions required to solve the challenges faced by Law Investigating Officers (LEOs) in Cyber Crimes:	Software	KB186	Smart Communication
88	Government of Andhra Pradesh	Disease Reporting System	Software	KB198	Smart Communication
89	Great Learning	Attention Span Detection in Online Instructor Led Sessions	Software	GL32	Smart Education
90	Gov of Uttarakhand	Predicting the trends of quality-oriented jobs	Software	MK105	Smart Education

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
91	Dr. B R Ambedkar Institute of Technology	Library software for Andaman College	Software	DS165	Smart Education
92	Govt of Puducherry	Domain specific Learner facilitator Assist Software Given a learning resource the application should assist the learner in preparing for exams. For the facilitator the teaching material should be prepared automatically. The learning resource could be electronic materials on a particular subject.	Software	DK181	Smart Education
93	Govt of Puducherry	"Bibliophile Companion - A companion similar to an active agent, that helps the reader to organize and retrieve the highlighted text, book marked page and credentials of the content source in cloud across heterogeneous platforms, gadgets and applications."	Software	DK182	Smart Education
94	CDK Global	Vehicle Maintenance Index- In Today's world with so many cars, models in the market, it is hard to find out which car has a high maintenance cost/index that is authentic source.	Software	RA24	Smart Vehicles
95	ARAI	Warning System for Driver	Software	UK149	Smart Vehicles
96	ARAI	Anti Theft Systems for 2 wheelers	Software	UK151	Smart Vehicles
97	NALCO	TRACKING and Control of Hot METAL TRANSPORTATION TRUCKS	Software	PN313	Smart Vehicles
98	Department of Financial Services	Development of Information App for Alert on Financial Matters	Software	MK23	Software - Mobile App developmen
99	Cisco DEVNET	Mid-Day Meal Analytics	Software	AM291	Software - Mobile App development
100	Airports Authority of india	An Mobile based Inventory Management System using QR code application	Software	AK12	Software - Mobile App development
101	Airports Authority of india	Mobile Application based Passenger facilitation System using Artificial Intelligence and Machine learning	Software	AK16	Software - Mobile App development

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
102	Department of Financial Services	Upgradation of Jan-Dhan Darshak App	Software	MK21	Software - Mobile App development
103	Ministry of Housing and Urban Affairs	Every part of our country is very rich in its heritage and culture. However, awa-reness about the same can be increased in the local residents. What needs to done increase the ownership amongst the citizens towards the heritage (both tangible and intangible)?	Śoftware	BC76	Software - Mobile App development
104	Govt of Goa	Pothole Challenge	Software	DR112	Software - Mobile App development
105	Govt of Goa	Stray Cattle Challenge	Software	DR113	Software - Mobile App development
106	Ministry of Women and Child Development	Positive psychology games (Mobile/Computer) which help develop a. Respect for right and dignity of women and child b. which help promote objective of Beti Bachao Beti Padao(BBBP)	Software	AS118	Software - Mobile App development
107	Ministry of Women and Child Development	Innovative apps for women safety specially in cyber space	Software	AS123	Software - Mobile App development
108	National Mission for Clean Ganga, DoWR, RD & GR, Ministry of Jal Shakti	Know your Ghats mobile app facilitating general public use information on Ghats/crematoria existing along Ganga and its tributaries.	Software	PG179	Software - Mobile App development
109	Ministry of Rural Development	Non network intensive record keeping system for SHG	Software	MK206	Software - Mobile App development
110	NATIONAL CRIME RECORDS BUREAU	Mobile Apps for Citizens and Police for management of crime records	Software	SK215	Software - Mobile App development
111	Ministry of Communications	Detecting Poor Telecom Connectivity (Cellular) regions using user device signal strength	Software	PJ234	Software - Mobile App development

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
112	Ministry of Communications	Mapping of Telecom infrastructure in GIS application	Software	PJ235	Software - Mobile App development
113	Ministry of Communications	To develop an app and SMS based application which can register the grey market complaint	Ŝoftware	PJ239	Software - Mobile App development
114	Ministry of Communications	Development of platform for dialing single emergency no SDC (Short digit code)	Software	PJ240	Software - Mobile App development
115	Govt. of Madhya Pradesh	Web, portal and Apps for facilitating reporting of offences for registration of FIR with provision OCR based signature along with Aadhar based digital signature	Software	MS339	Software - Mobile App development
116	Govt. of Madhya Pradesh	App based portrait building system	Software	MS342	Software - Mobile App development
117	Indian Space Research Organisation (ISRO)	Air/Water turbidity estimation mobile app	Software	NM370	Software - Mobile App development
118	Indian Space Research Organisation (ISRO)	Web-map data visualization using augmented reality globe	Software	NM377	Software - Mobile App development
119	Indian Space Research Organisation (ISRO)	AI based crop identification mobile app	Software	NM378	Software - Mobile App development
120	Indian Space Research Organisation (ISRO)	App for recording and playing geo tagged videos	Software	NM380	Software - Mobile App development
121	Indian Space Research Organisation (ISRO)	App for identification of sky regions in a photo	Software	NM381	Software - Mobile App development
122	Indian Space Research Organisation (ISRO)	Virtual reality based Earth/Moon explorer	Software	NM385	Software - Mobile App development

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
123	*	Processing, visualization and application development of raw GNSS data on Android Smartphones:	Software	NM405	Software - Mobile App development
124	BEML Limited	Creating Ability to Server Logs Management for Analysis & Report of Heterogeneous Servers	Software	AK209	Software - Web App development
125	Adani Port and SEZ Ltd	To Predict the Optimum Vessel Turnaround Time	Software	SM320	Software - Web App development
126	Adani Port and SEZ Ltd	Seamless Invoicing and Reconciliation System	Software	SM321	Software - Web App development
127	Ministry of Youth Affairs & Sports	NYKS requires a software / Mobile through which we may take attendance of the Officers who are working in the different districts and States across the country.	Software	DK1	Software - Web App development
128	Airports Authority of india	Developing a Software Tool to aid Search and Rescue by Calculating and Plotting Search Area from the Last Known Position of a Missing Aircraft.	Software	AK9	Software - Web App development

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
129	Airports Authority of india	rating an Airport Mapping Database	Software	AK10	Software - Web App development
130	Airports Authority of india	A web based software is sought for fail-free operations of various CNS/ATM facilities, preventive maintenance is carried out on daily, weekly, monthly, six-montly and annual basis.	Ŝoftware	AK11	Software - Web App development
131	Airports Authority of india	A visual Dashboard based on data analytics for percentage utilization of Airport facilities and utilities using IOT.	Software	AK13	Software - Web App development
132	Airports Authority of india	Knowledge Management System through Block Chain	Software	AK15	Software - Web App development
133	Ministry of Women and Child Development	Management Information System (MIS) software for IMOs	Software	AS33	Software - Web App development
134	Ministry of Women and Child Development	In GeM Portal, provision for customization of terms and conditions for Annual Maintenance Contract of services as per the need of the services required by the organisation may be created.	Software	AS39	Software - Web App development
135	Ministry of Women and Child Development	Management Information System (MIS) software for IMOs	Software	AS33	Software - Web App development
136	Ministry of Women and Child Development	In GeM Portal, provision for customization of terms and conditions for Annual Maintenance Contract of services as per the need of the services required by the organisation may be created.	Software	AS39	Software - Web App development
137	Bureau of Police Research & Development	Efficient Chatbot Designing	Software	RK62	Software - Web App development
138	Ministry of Housing and Urban Affairs	Cities have issues of safety. There is data available in cities, which indicate a particular section being more unsafe than others. What should be done with these unsafe parts of any city to increase the safety of our citizens?	Software	BC74	Software - Web App development

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
139	Gov of Uttarakhand	National Web Portal used for designing Job oriented courses with the help of Human Resource data and desirable skill sets from industries.	Software	MK95	Software - Web App development
140	Govt of Goa	Alumni Tracking System	Software	DR111	Software - Web App development
141	Ministry of Women and Child Development	Disruptive innovation for women empowerment	Software	AS119	Software - Web App development
142	Ministry of Women and Child Development	Innovative online tool for protection of Child Right	Software	AS121	Software - Web App development
143	Ministry of Women and Child Development	Innovative online tools for comprehensive financial inclusion of women	Software	AS122	Software - Web App development
144	Ministry of Women and Child Development	Promoting holistic nutrition among women and children through/with the help of IT for Poshan Abhiyaan	Software	AS124	Software - Web App development
145	Dte of IT & Cyber Security, DRDO	Indoor Navigation App	Software	CK139	Software - Web App development
146	Government of Andhra Pradesh	Design State Research Portal, a single point securely hosted solution to seamlessly integrate search and manage all the research activities	Software	KB141	Software - Web App development
147	Government of Andhra Pradesh	AI and OCR - To search Telugu & Urdu words in PDF present in Unicode as well as in image format	Software	KB145	Software - Web App development
148	Dr. B R Ambedkar Institute of Technology	Court Case Management software	Software	DS159	Software - Web App development

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
149	Ministry of Rural Development	Automation mechanism for image capturing, processing, standardization, evaluation, classification leading to better decision making results for various programs	Software	MK200	Software - Web App development
150	Ministry of Rural Development	Streamlining of Reporting Framework for MGNREGA reports	Software	MK202	Software - Web App development
151	Ministry of Rural Development	Intelligent attendance solution for MGNREGA workers	Software	MK203	Software - Web App development
152	Ministry of Rural Development	Geography based analysis for noise identification in large and complex data gathered	Software	MK204	Software - Web App development
153	Ministry of Rural Development	Making websites meaningful for differently Abled citizens with open source tools	Software	MK205	Software - Web App development
154	Ministry of Rural Development	Mechanism for linking of works under convergence in Rurbanwith multiple DBs (e.g.: MGNREGS, PMUY, DDU-GKY, PMAY, SAGY etc.)	Software	MK208	Software - Web App development
155	Government of Andhra Pradesh	Monitoring and Evaluation of Higher Educational Institutions in Andhra Pradesh	Software	KB219	Software - Web App development
156	National Jute Board, Min of Textiles	Automated Inspection of manufacturing Process	Software	AR244	Software - Web App development
157	National Jute Board, Min of Textiles	Software to track the goods through its delivery path and ensure safe delivery	Software	AR245	Software - Web App development
158	National Jute Board, Min of Textiles	Solution For Implementing and tracking of certified jute seeds packaging from the suppliers to jute farmers in india.	Software	AR247	Software - Web App development
159	National Jute Board, Min of Textiles	Artificial Intelligence based solution which may calculate the probability of future market trend on the basis of past years data and suggest a suitable pricing model for sale of cotton	Software	AR256	Software - Web App development

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
160	Govt. of Madhya Pradesh	Vehicle recognition and compilation in database software	Software	MS333	Software - Web App development
161	Govt. of Madhya Pradesh	Developing Virtual Police Station to receive FIR with OCR based digital signature authenticated through digital signature (Aadhar Number based authentication).	Ŝoftware	MS336	Software - Web App development
162	Govt. of Madhya Pradesh	Converting typed or printed document images (photos) to legible text documents and storing the critical information in a database and protecting the digital image with # value so that document is admissible as evidence.	Software	MS337	Software - Web App development
163	Govt. of Madhya Pradesh	Converting hand written documents as scanned images or photos (in any format) to legible text document using AI extracting important and critical information into database.	Software	MS338	Software - Web App development
164	Govt. of Madhya Pradesh	Requisitioning of data, information and documents	Software	MS340	Software - Web App development
165	Indian Space Research Organisation (ISRO)	Web based volume rendering and 3D/4D visualization of Model Forecast	Software	NM389	Software - Web App development
166	Ministry of Women and Child Development	Rain harvesting facility may be made compulsory in all the Govt./Govt. funded buildings. Funds for this purpose may be made allocated/released	Software	AS38	Sustainable Environment
167	Ministry of Women and Child Development	Rain harvesting facility may be made compulsory in all the Govt./Govt. funded buildings. Funds for this purpose may be made allocated/released	Software	AS38	Sustainable Environment
168	Dr. B R Ambedkar Institute of Technology	Android App for Geo-tagging location of wildlife and forest offence and sighting of wildlife in the forest areas	Software	DS163	Sustainable Environment
169	Dr. B R Ambedkar Institute of Technology	Paperless Office	Software	DS171	Sustainable Environment

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
170	Government of Andhra Pradesh	APPCB looks forward to bringing in all polluting industries in the state to enhance the existing system more transparent and effective monitoring of emissions and effluents. APPCB envisages implementing Internet of Things (loT) technology for obtaining of authentic and reliable data directly from the analyzers installed at the industry rather than the data from the intermediary system.	Software	KB189	Sustainable Environment
171	Indian Space Research Organisation (ISRO)	Automated mapping of trees/farms in satellite image	Software	NM371	Sustainable Environment
172	Indian Space Research Organisation (ISRO)	Automated land use classification using AI/ML	Software	NM386	Sustainable Environment
173	Indian Space Research Organisation (ISRO)	Air pollution hot spots detection and identifying the source trajectories using ML/AI techniques	Software	NM394	Sustainable Environment
174	Indian Space Research Organisation (ISRO)	Identify shifting cultivation locations in dense temporal stacks	Software	NM395	Sustainable Environment
175	Indian Space Research Organisation (ISRO)	Change detection and extraction of information / features of interest in RS images using time series information	Software	NM398	Sustainable Environment
176	Cisco DEVNET	Atithi Devo Bhava	Software	AM289	Travel and Tourism
177	Dr. B R Ambedkar Institute of Technology	A Mobile App with Virtual Reality Based Gallery for Heritage Museums of Andaman & Nicobar Islands	Software	DS90	Travel and Tourism
178	Gov of Uttarakhand	Theoretically the bridges are designed having life span of 50 years. However practically the life span of bridges varies between 30 to 40 years. Therefore, it is required to redesign the bridges of length 50m based on geomorphic condition. The solution must be of low cost and longer duration one.	Software	MK103	Travel and Tourism
179	Govt of Goa	Virtual Tourist Guide	Software	DR135	Travel and Tourism

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S.No	Organization	Problem Statement	Category	Problem Statement Number	Technology Bucket
180	CDK Global	Geo Tracking of Waste and Triggering Alerts and Mapping Areas with High Waste Index	Software	RA26	Waste Management
181	Ministry of Micro, Small & Medium Enterprises	Development of business models for collection and utilization of single use plastics and various other industrial wastes	Śoftware	SG64	Waste Management

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