

Smart India Hackathon is a nationwide initiative to provide students a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving.

To know more: <https://www.sih.gov.in/>

Registration Link: bit.ly/SIHUIETKUK

Problem Statements : <https://sih.gov.in/sih2022PS>

Help to select mentor from industry: <https://bit.ly/mentorindustry>

Help to select mentor from academia: <https://bit.ly/mentorfaculty>

Facing problem in team formation join this slack link

: <https://dscuietkuk.slack.com/archives/C033P5CJUV6/p1644851499189959>

Sr. No given at SIH portal	Organisation	Problem Statement Title	Category	Problem statement no	Domain
55	Ministry of Ayurveda, Yoga, Naturopathy, Unani, Siddha, Sowa-Rigpa and Homoeopathy (AYUSH).	Portable decoction of (Kashaya) Making Machine	Hardware	DK732	MedTech / BioTech / HealthTech
59	Ministry of Ayurveda, Yoga, Naturopathy, Unani, Siddha, Sowa-Rigpa and Homoeopathy (AYUSH).	Smart Watch with vital record and lifestyle recommendation with mobile application	Hardware	DK736	MedTech / BioTech / HealthTech
61	Coal India Limited	Work clothing that has sensors embedded in it to securely transmit data to managers about hazardous conditions and the workers' physical conditions, improving safety overall	Hardware	NC738	Smart Automation
62	Coal India Limited	Prototype of a Solar Powered IOT Device with the ability to	Hardware	NC739	Transportation & Logistics

		connect to a smart network to be used in Geo Tagging of Physical Assets Created under CSR			
65	Ministry of Consumer Affairs	Smart Buffer Stock Solution	Hardware	VM742	Agriculture, FoodTech & Rural Development
68	Ministry of Culture	OCR and Fastest Scanning Device and Application	Hardware	GM745	Smart Automation
83	Department of Empowerment of Persons with Disabilities(Divyangjan) , Ministry of Social Justice and Empowerment	Development of easy operating systems for persons with locomotor disability.	Hardware	RK760	Smart Automation
89	Department of Empowerment of Persons with Disabilities(Divyangjan) , Ministry of Social Justice and Empowerment	IoT based solution for recording and storing metrics of normal and orthotic leg for analysis by Orthotist.	Hardware	RK766	MedTech / BioTech / HealthTech
90	Department of Empowerment of Persons with Disabilities(Divyangjan) , Ministry of Social Justice and Empowerment	Using depth sensors or computer vision in prosthetic lower extremity exoskeleton appliance to alert or adjust gait.	Hardware	RK767	MedTech / BioTech / HealthTech
93	Department of Empowerment of Persons with Disabilities(Divyangjan) , Ministry of Social Justice and Empowerment	Smart knee actuator cushion using pressure sensitive material	Hardware	RK770	MedTech / BioTech / HealthTech
100	Department of Empowerment of Persons with Disabilities(Divyangjan) , Ministry of Social	Development of Software for AAC for persons with different disabilities	Hardware	RK777	MedTech / BioTech / HealthTech

	Justice and Empowerment				
129	Ministry of Housing and Urban Affairs	Suggest an innovative technical approach to address the air pollution and stubble burning in Delhi/NCR.	Hardware	BV807	Disaster Management
131	Ministry of Housing and Urban Affairs	Suggest a solution to ensure that the demand for public transport resonates with the stretched peak hours to ensure uniform demand during these hours.	Hardware	BV809	Transportation & Logistics
132	Ministry of Housing and Urban Affairs	Suggest an effective way for tackling the issue of improper disposal of personal COVID protection equipment which leads to an additional strain on the city authorities who were already grappling with single use plastic menace.	Hardware	BV810	MedTech / BioTech / HealthTech
136	Ministry of Housing and Urban Affairs	Suggest an effective way for mitigating the problem of conserving and re-using the rain water and reduce water demand at source.	Hardware	BV814	Disaster Management
137	Ministry of Housing and Urban Affairs	Suggest an innovative approach for redeveloping the centralized sewage treatment plants and help the city managers to better adopt decentralized approaches and ensure water	Hardware	BV815	Disaster Management

		resources through reuse.			
181	Ministry of Electronics and Information Technology (MEITY).	Virtual Laboratory for Science subjects at school level	Hardware	PK859	Smart Automation
182	Ministry of Electronics and Information Technology (MEITY).	Sustainable and No Contact Attendance system	Hardware	PK860	Smart Automation
210	National Institute of Design Madhya Pradesh	Scarcity of water in hilly areas during summer months.	Hardware	ST889	Renewable / Sustainable Energy
220	National Disaster Response Force (NDRF).	Administrative Difficulties faced by NDRF in Rescue missions in floods/GLOF(Glacial Lake Outburst Flood) situations	Hardware	GS899	Disaster Management
222	National Disaster Response Force (NDRF).	Identification and location of voids in earthquake scenario	Hardware	GS901	Disaster Management
223	National Disaster Response Force (NDRF).	Effective Under water search/ROV	Hardware	GS902	Disaster Management
225	National Disaster Response Force (NDRF).	Smart wearables for rescuers/victims	Hardware	GS904	Disaster Management
229	National Disaster Response Force (NDRF).	Borewell Rescue Operations	Hardware	GS908	Disaster Management
232	National Institute of Ocean Technology (NIOT), Ministry of Earth Sciences (MoES).	Measurement of Coastal topography and marking the high and low tide lines using drones.	Hardware	GR912	Robotics and Drones
276	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SM956	Smart Automation
277	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SM957	Fitness & Sports
278	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SM958	Heritage & Culture
279	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SM959	MedTech / BioTech / HealthTech
280	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SM960	Agriculture, FoodTech & Rural Development

281	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SM961	Smart Vehicles
282	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SM962	Transportation & Logistics
283	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SM963	Robotics and Drones
284	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SM964	Clean & Green Technology
285	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SM965	Travel & Tourism
286	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SM966	Renewable / Sustainable Energy
287	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SM967	Blockchain & Cybersecurity
288	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SM968	Miscellaneous
289	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SM970	Disaster Management
297	Department of School Education & Literacy (DoSEL), Ministry of Education.	Improving Education Delivery and learning outcome for specially abled children	Hardware	RK978	Smart Education
298	Department of School Education & Literacy (DoSEL), Ministry of Education.	Identify slow learners for remedial teaching and capacity building for innovative methods	Hardware	RK979	Smart Education
309	AICTE, MIC-Student Innovation	Student Innovation	Hardware	SM990	Disaster Management
344	Ministry of Tourism	Estimation of current CO2 emissions in Tourism and ways to reduce them	Hardware	PK1027	Travel & Tourism
351	Ministry of Tourism	Digital interventions / innovative operating models for ensuring operations and maintenance of tourism infrastructure to required service levels.	Hardware	PK1034	Heritage & Culture
352	Ministry of Tourism	Innovative solutions to save time and effort required to	Hardware	PK1035	Heritage & Culture

		assess the tourism infrastructure through digital process			
362	Government of Rajasthan	To find all-new ways to store electric energy in bigger volume and less in size and weight.	Hardware	TK1045	Renewable / Sustainable Energy
364	Government of Rajasthan	To build robots for all kinds of dedicated tasks such as cleaning shoes, planting crops, cleaning windows, etc.	Hardware	TK1047	Robotics and Drones
365	Government of Rajasthan	To innovate a Smart materials that change their behaviour based on environmental conditions i.e, taking the carbon out of carbon dioxide, and returning the dioxide back to air.	Hardware	TK1048	Smart Automation
366	Government of Rajasthan	To develop new ways of Waste water management system in rural areas	Hardware	TK1049	Agriculture, FoodTech & Rural Development
368	Government of Rajasthan	To find ways to replace prisons with socially effective methods of societal reintegration	Hardware	TK1051	Miscellaneous
372	Government of Uttarakhand	To develop economic waste management system for each village/city.	Hardware	AU1055	MedTech / BioTech / HealthTech
373	Government of Uttarakhand	To construct ropeway map/structure in hilly areas for transportation	Hardware	AU1056	Transportation & Logistics
374	Government of Uttarakhand	Most economical water security plan for remotest villages of Uttarakhand	Hardware	AU1057	Renewable / Sustainable Energy

375	Government of Uttarakhand	To develop automatic irrigation system by use of waste water for small irrigation field.	Hardware	AU1058	MedTech / BioTech / HealthTech
376	Government of Uttarakhand	GIS based flood & landslide risk assessment in hilly areas of Uttarakhand.	Hardware	AU1059	Disaster Management
377	Government of Uttarakhand	To develop Waste water management system in villages.	Hardware	AU1060	Agriculture, FoodTech & Rural Development
380	Department of Science & Technology (DoST), Ministry of Science and Technology.	Knee support for elderly for transferring body weight to shoe	Hardware	DA1063	MedTech / BioTech / HealthTech
381	Department of Science & Technology (DoST), Ministry of Science and Technology.	Non-invasive Glucometer	Hardware	DA1064	MedTech / BioTech / HealthTech
382	Department of Science & Technology (DoST), Ministry of Science and Technology.	Solar panel with solar tracking device without power consumption	Hardware	DA1065	Smart Automation
383	Department of Science & Technology (DoST), Ministry of Science and Technology.	AI based interactive robot for elderly care	Hardware	DA1066	Robotics and Drones
384	Department of Science & Technology (DoST), Ministry of Science and Technology.	Video conference – Eye to eye contact – Mobile App	Hardware	DA1067	Miscellaneous
386	Department of Science & Technology (DoST), Ministry of Science and Technology.	Wheel Chair with attachment for B-Type oxygen cylinder for COPD patients	Hardware	DA1069	Transportation & Logistics
387	Department of Science & Technology (DoST), Ministry of Science and Technology.	Water harvesting:	Hardware	DA1070	Clean & Green Technology
389	Department of Science & Technology (DoST), Ministry of Science and Technology.	Smart Networks for Renewable Integrated Sources for standalone Microgrids	Hardware	DA1072	Renewable / Sustainable Energy

426	Department of Sports (DoS), Ministry of Youth Affairs & Sports.	Wearable sensors for Sports Biomechanics Application	Hardware	AK1109	Fitness & Sports
433	Central Water Commission (CWC), Ministry of Jal Shakti	Use of digital technology or making physical prototype for micro irrigation system to improve Water Use Efficiency of Irrigation sector.	Hardware	RK1116	Agriculture, FoodTech & Rural Development
441	Ministry of Micro, Small & Medium Enterprises (MSME).	Development of Technology for manufacturing of mind control BIONIC hand with a sense of touch	Hardware	RK1124	MedTech / BioTech / HealthTech
442	Ministry of Micro, Small & Medium Enterprises (MSME).	Uncontrolled growth of water hyacinth in lakes.	Hardware	RK1125	MedTech / BioTech / HealthTech
443	Ministry of Micro, Small & Medium Enterprises (MSME).	Disposal/Recycle of Covid-19 related items such as Mask, Sanitizer, face cover etc.	Hardware	RK1126	MedTech / BioTech / HealthTech
444	Ministry of Micro, Small & Medium Enterprises (MSME).	Water logging in almost all major cities despite having drainage system in place	Hardware	RK1127	Clean & Green Technology
449	Ministry of Ports, Shipping & Waterways	Automation of port processes to improve port handling efficiency and reduce errors	Hardware	AK1132	Smart Automation
450	Ministry of Ports, Shipping & Waterways	Technology solutions for decarbonization of maritime industry as per IMO CHG startegy	Hardware	AK1133	Clean & Green Technology
451	Ministry of Ports, Shipping & Waterways	Advance simulators for providing real-time situations training	Hardware	AK1134	Robotics and Drones
452	Ministry of Ports, Shipping & Waterways	Teechnology solutions for	Hardware	AK1135	Robotics and Drones

		enhanced Maritime Security			
453	Ministry of Ports, Shipping & Waterways	Green Transformation of ports to achieve Net Zero Carbon Emissions	Hardware	AK1136	Clean & Green Technology
454	Ministry of Ports, Shipping & Waterways	Air Quality Index for Major Port	Hardware	AK1137	Transportation & Logistics
487	Defence Research and Development Organisation (DRDO), Ministry of Defence.	Develop a drone based Ambulances system to avert the challenges faced on ground during golden hour reaction time.	Hardware	NR1171	Robotics and Drones
502	Dairy Division, Department of Animal Husbandry & Dairying, Ministry of Fisheries, Animal Husbandry & Dairying	Milk pasteurization other than heat treatment	Hardware	DV1186	Agriculture, FoodTech & Rural Development
503	Dairy Division, Department of Animal Husbandry & Dairying, Ministry of Fisheries, Animal Husbandry & Dairying	Develop an innovative solution to conversion of excess milk to usable products	Hardware	DV1187	Agriculture, FoodTech & Rural Development
504	Dairy Division, Department of Animal Husbandry & Dairying, Ministry of Fisheries, Animal Husbandry & Dairying	Portable & Smart Packing system with quality check framework	Hardware	DV1188	Agriculture, FoodTech & Rural Development
505	Swachh Bharat Mission (Grameen), Department of Drinking Water & Sanitation, Ministry of Jal Shakti	Waste Management System	Hardware	ML1189	Clean & Green Technology
506	Swachh Bharat Mission (Grameen), Department of Drinking Water & Sanitation, Ministry of Jal Shakti	Rapid decomposition of waste in rural areas	Hardware	ML1190	Miscellaneous
507	Volvo	Fault tracing of wiring harnesses - Could this be combined with AR	Hardware	SK1204	Smart Automation

508	Volvo	How to avoid median accidents : Invisible center medians cause a huge number of accidents in India.	Hardware	SK1205	Smart Vehicles
509	Volvo	Solutions to detect air quality inside the cabin and improve it.	Hardware	SK1206	Transportation & Logistics
518	NIFTEM Thanjavur ,Ministry of Food Processing Industries (MoFPI)	IoT enabled risk monitoring svstem in Cold Suppll Chain	Hardware	MA1216	Smart Automation
519	NIFTEM Thanjavur ,Ministry of Food Processing Industries (MoFPI)	Block chain application for tagging farm produces	Hardware	MA1217	Blockchain & Cybersecurity
520	NIFTEM Thanjavur ,Ministry of Food Processing Industries (MoFPI)	To provide solution for entire year commercial solar drying of food commodities.	Hardware	MA1218	Clean & Green Technology
521	NIFTEM Thanjavur ,Ministry of Food Processing Industries (MoFPI)	smart and sustainable supply chain	Hardware	MA1219	Clean & Green Technology
522	Department of Food & Public Distribution, Ministry of Consumer Affairs Food and Public Distribution	"Scientific method for determining age Agriculture and Food & of boiled rice "	Hardware	VA1220	Agriculture, FoodTech & Rural Development
523	Department of Food & Public Distribution, Ministry of Consumer Affairs Food and Public Distribution	Artificial Intelligence enabled Agriculture, Food and Public Robotic stacker for mechanized Distribution Loading/Unloading of foodgrain	Hardware	VA1221	Agriculture, FoodTech & Rural Development