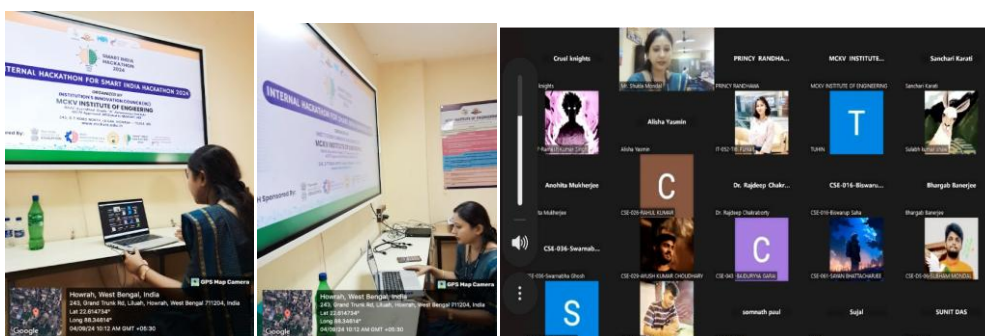


SMART INDIA HACKATHON, 2024

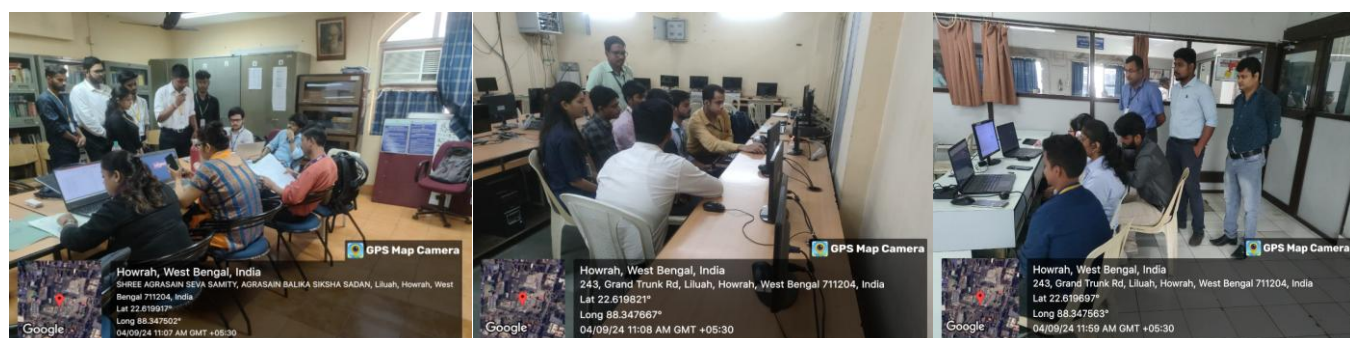
- About the event:** Smart India Hackathon 2024 (SIH 2024) is an initiative of the Government of India to help various government departments and private organizations to get solutions for some of their pressing problems through students. SIH 2024 is a nationwide initiative to provide students a platform 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. Beforehand Institute's Internal campus hackathon needs to be conducted on-premises as a preliminary selection criterion for the said event.

MCKV Institute of Engineering organized an internal hackathon on 4th September, 2024 on the college campus. 65 groups comprised of 6 students each including the team leader and at least one female member have participated in the event. 44 groups were nominated for Smart India Hackathon, 2024.

- Photos of the event organized:-** Inauguration of the event to prize distribution.



- Picture of all participating teams**





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4. Judging Process: All the team members presented their idea about a pressing problem that we have faced in our day today life. The total duration of the presentation and discussion was of 15 minutes.

Judges graded them with respect to their idea and clarity, implementation prospect, presentation skill, problem-solving weightage, and team skills. A photo of one of the graded sheets is given below.

Sl. No.	Team Id	PROBLEM STATEMENT / IDEA THEME	CATEGORY	Team Name	Team Leader	Innovation Marks by Dr. Rajdeep Chakraborty	Presentation Marks by Dr. Rajdeep Chakraborty	Innovation Marks by Prof. Silky Sharma	Presentation Marks by Prof. Silky Sharma	Remarks by Internal Teacher	Remarks by Dr. Rajdeep Chakraborty	Remarks by Prof. Silky Sharma
1	19	Development of a non-electrical device for tracking the movement of the sun for movement of the solar panels, increasing their efficiency.	Renewable / Sustainable Energy	Hardware	Unicorn	Rupankar Das	3	3				
2	20	Health Data Information & Management System Mobile Application (HIDMA)	MedTech / BioTech / HealthTech	Software	Knee-Pulse	Alisha Yasmin	2	2	3	3		
3	21	AI-Driven Crop Disease Prediction and Management System	Agriculture, Food Tech & Rural Development	Software	DevOps	Arghyadeep Singha	2	2	4	3		
4	22	Online Chatbot based ticketing system	Travel & Tourism	Software	TECHTREK	Nishant Kumar Bhadani	3	4	3	2		
5	23	Create a Virtual Herbal Garden that provides an interactive, educational, and immersive experience to users, showcasing the diverse range of medicinal plants used in Ayurveda (Ayurveda, Yoga & Naturopathy - Triada)	MedTech / BioTech / HealthTech	Software	SitedSmiths	Divya Rampuria	2	2	2	2		
6	24	AI-Driven Crop Disease Prediction and Management System	Agriculture, FoodTech & Rural Development	Software	SIXER	Ankan Samanta	3	2	2	2		
7	25	Drone based intelligent ET sensing system and irrigation water use accounting system for irrigation commands.	Robotics and Drones	Hardware	Aqua Assassinator	Sneha Das	2	2	4	4		
8	26	Personalized testing kits for testing Residual Chlorine level at delivery	Smart Automation	Hardware	CodeCatalyst	Subhas Mukherjee	3	4	2	3		

5. Jury panel relevant details

The jury panel was comprised of external judges only.

6. Nominated top teams

Nomination	Team No.	Team Name	Name of The Team Leader
1	8	Medmik	Avirup Ghosh
2	32	SURAKHSHA SAATHI	Harsh Mishra
3	7	Snippets	Sanchayita Ghosh
4	28	TEAM AKATSUKI	Somnath Paul
5	31	Marine Mavericks	Diya Sarkar
6	48	TRIAD	Ankur Banerjee
7	16	Horizon	Diptadeep Ghosh
8	38	Senescent	Debayan Ghosh
9	33	Infinity	Rajdip Ghorai



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10	45	Agro Bytes	Ushasi Bag
11	46	Team Bots	Tuhin Kumar Singha Roy
12	49	Nerd Herd	Nishka Shrimali
13	1	B-MADS	Bhargab Banerjee
14	17	Dark Spirits	Sujal Kumar Gupta
15	3	Ayur Dehi	Meghna Bakuli
16	19	Unicorn	Rupankar Das
17	22	TECHTREK	Nishant Kumar Bhadani
18	25	Aqua Assassins	Sweta Das
19	26	Codecatalyst	Subhas Mukherjee
20	27	Tech Titans	Srijani Tribedi
21	35	Cruel Knights	Oneeka Kundu
22	42	Ti - Team of inn.Thinkers'	Subham Mondal
23	21	Devops	Arghyadeep Singha
24	29	CREATIVE CATALYST	Avinandan Chakraborty
25	51	Brainless Fellas	Ayush Kumar Choudhary
26	20	Knee-Pulse	Alisha Yasmin
27	37	Fearless Achievers	Amit Kumar Shaw
28	41	Vengram	Saikat Jana
29	50	Aiding Soldiers	Soumaditya Deb
30	61	Hacktivate	Swarnabha Ghosh
31	2	Cosmic Weavers	Sanchari Karati
32	11	The Matrix	Anohita Mukherjee
33	14	CTRL C+V	Nirotyay Mukherjee
34	24	SIXER	Ankan Samanta
35	47	Electro Infinity	Samrat Hazra
36	57	Iraters	Devanshu Sharma
37	58	THE MAJESTIC RETREAT	Titli Purkait
38	59	THE ACHIEVERS	Ansh Gupta
39	63	Hackwave	Bishnu Bhakat
40	4	Team unity	Shubhankar Pal



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41	18	Binary Soul	Ramesh Kumar Singh
42	23	SiteSmiths	Divya Rampuria
43	40	SYNTAX ERROR	Sunit Das
44	56	Hackathon.com	Soumyajit Sarkar

7. Judges details

1)Dr. Partha Ghosh,Assistant Professor,Department of IT,Netaji Subhash Engineering College, Kolkata, West Bengal, India, partha1812@gmail.com,partha.ghosh@nsec.ac.in, 70030 56220

2)Dr. Princy Randhawa ,Assistant Professor (Senior Scale),Department of Mechatronics Engineering ,Manipal University Jaipur ,princy.randhawa@jaipur.manipal.edu , 95210 99223

3)Dr. Rajdeep Chakraborty,Associate Professor „Department of CSE ,Medi-Caps University, Indore, Madhya Pradesh, India , rajdeep.chak@gmail.com, rajdeep.chakraborty@medicaps.ac.in, 98368 25426

4)Prof. Silky Sharma, School of Commerce & Management Studies, Dayananda Sagar University, Bengaluru, India
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5)Dr Sachi Nandan Mohanty ,Professor , school of Computer Science and Engineering. VI T -AP university
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6)Dr Archana Singh,Professor,D Y Patil University, Pune.
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7)Prof. Aparajita Sanyal, Calcutta Business School,
sanyal.aparajita@gmail.com, 9830519050

8)Dr. Sanjoy kumar Debnath,Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India , sanjoy.kumar@chitkara.edu.in or sanjoyyy@yahoo.com, 7009504312

9)Prof. Swapnil Gorde, Professor of Practice , MIT ADT Univeristy, Pune.
swapnil.gorde@mituniversity.edu.in, 8100771166

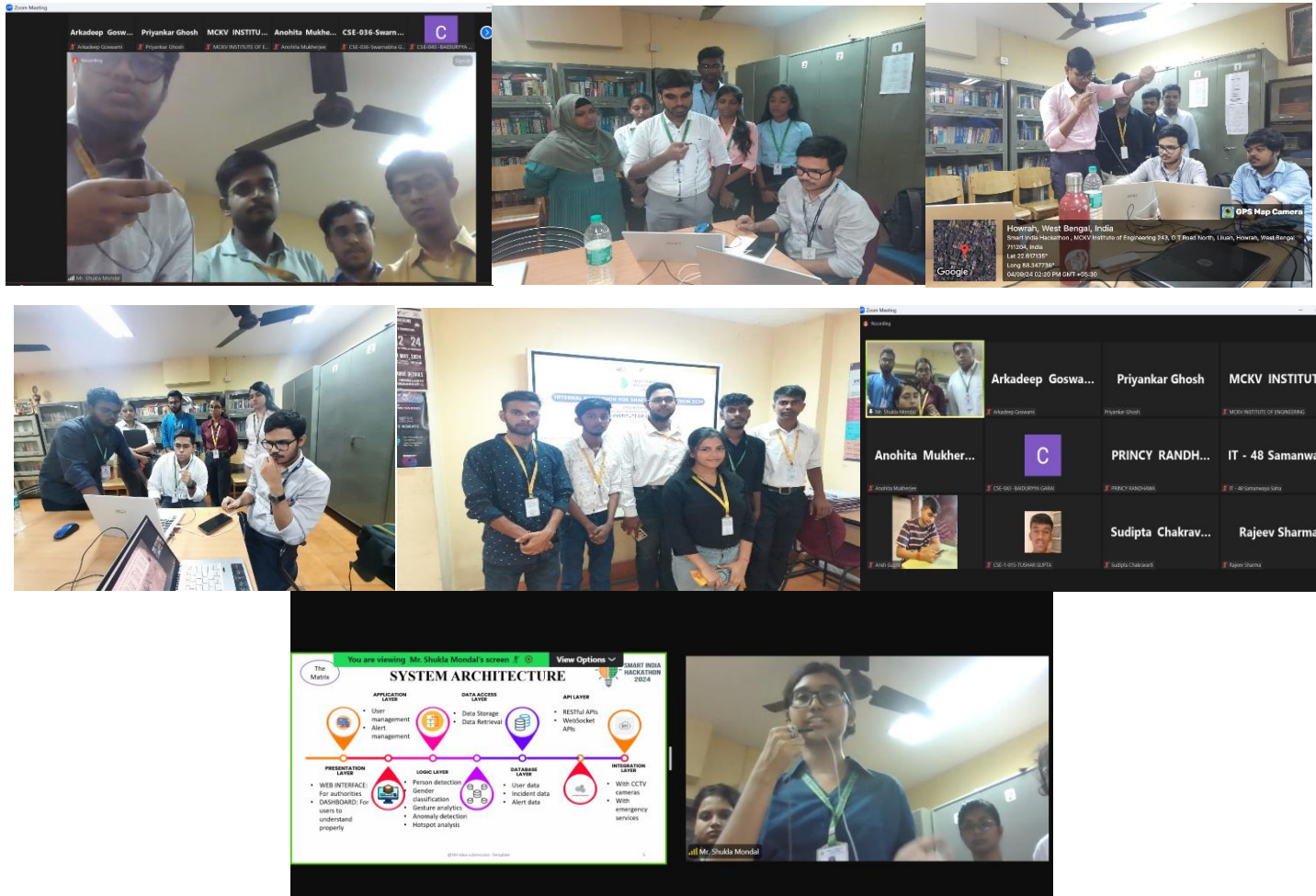


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8. Total teams and students participated and photos



Team Id	Team Name	Team Leader	Problem Statement / Idea	Theme	Category	PS Number
1	B-MADS	Bhargab Banerjee	Developing solutions , keeping in mind the needs to enhance the primary sectors of India -Agriculture and to manage and process our agriculture produce.[STUDENT INNOVATION]	Agriculture , FoodTech & Rural Development	Hardware	SIH1536
2	Cosmic Weavers	Sanchari Karati	SAR Image Colorization for Comprehensive Insight using Deep Learning Model (h)	Space Technology	Software	SIH1733



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3	Ayur Dehi	Meghna Bakuli	Create a Virtual Herbal Garden that provides an interactive, educational, and immersive experience to users, showcasing the diverse range of medicinal plants used in AYUSH (Ayurveda, Yoga & Naturopathy, Unani, Siddha, and Homeopathy).	MedTech / BioTech / HealthTech	Software	SIH1555
4	Team unity	Shubhanka r Pal	Development of a mobile application to provide recreational suitability information of beach locations across India	Travel & Tourism	Software	SIH1656
5	Udbhaban	Baiduryya Garai	Indian Sing Language to Text/Speech translation	Miscellaneous	Software	SIH1716
6	ECO FRIENDS	Sukanya Saha	Development of an educational game (web-based and mobile-based) on groundwater conservation and management	Smart Education	Software	SIH1698
7	Snippets	Sanchayita Ghosh	Mobile App for Direct Market Access for Farmers	Agriculture, FoodTech & Rural Development	Software	SIH1637
8	Medmik	Avirup Ghosh	Student Innovation	MedTech / BioTech / HealthTech	Hardware	SIH1537
9	AgroVision	Sandipa Chakraborty	AI-Driven Crop Disease Prediction and Management System	Agriculture, FoodTech and Rural Development	Software	SIH1638



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10	Phoenix	Shouvanik Santra	STUDENT INNOVATION	ROBOTICS AND DRONES	Hardware	SIH1533
11	The Matrix	Anohita Mukherjee	Women Safety Analytics - Protecting Women from safety threats	Miscellaneous	Software	SIH1605
12	Technocrats	Priyam Pal	Conversational Image Recognition Chatbot	Smart Automation	Software	SIH1604
13	STS (Switch To Smart)	Shubhrajit Sarkar	Disaster Management includes ideas related to risk mitigation and Planning before,after or Duration of Disaster.	Disaster Management	Software	SIH1587
14	CTRL C+V	Nirotyay Mukherjee	Online Chatbot based ticketing system	Travel & Tourism	Software	SIH1648
15	EduElevate	Arpan Chakrabarty	Farmers Disease Diagnostic/Reporting Portal - Mobile Portal AI Base	Agriculture, FoodTech & Rural Development	Software	SIH1673
16	Horizon	Diptadeep Ghosh	Enhancing Navigation for Railway Station Facilities and Locations	Transportation & Logistics	Software	SIH1710
17	Dark Spirits	Sujal Kumar Gupta	Development of a Geolocation-Based Attendance Tracking Mobile Application.	Miscellaneous	Software	SIH1707
18	Binary Soul	Ramesh Kumar Singh	Let's Learn Constitution in a Simpler Manner-Citizen Perspective	Smart Education	Software	SIH1703
19	Unicorn	Rupankar Das	Development of a non-electrical device for tracking the movement of the sun for movement	Renewable / Sustainable Energy	Hardware	SIH1545



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			of the solar panels, increasing their efficiency.			
20	Knee-Pulse	Alisha Yasmin	Health Data Information & Management System Mobile Application (HDIMS)	MedTech / BioTech / HealthTech	Software	SIH1626
21	DevOps	Arghyadeep Singha	AI-Driven Crop Disease Prediction and Management System	Agriculture, Food tech & Rural Development	Software	SIH1638
22	TECHTREK	Nishant Kumar Bhadani	Online Chatbot based ticketing system	Travel & Tourism	Software	SIH1648
23	SiteSmiths	Divya Rampuria	Create a Virtual Herbal Garden that provides an interactive, educational, and immersive experience to users, showcasing the diverse range of medicinal plants used in AYUSH (Ayurveda, Yoga & Naturopathy, Unani, Siddha, and Homeopathy).	MedTech / BioTech / HealthTech	Software	SIH1555
24	SIXER	Ankan Samanta	AI-Driven Crop Disease Prediction and Management System	Agriculture, FoodTech & Rural Development	Software	SIH1638
25	Aqua Assassina-tors	Sweta Das	Drone based Intelligent ET sensing system and irrigation water use accounting system for irrigation commands.	Robotics and Drones	Hardware	SIH1571



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26	CodeCatalyst	Subhas Mukherjee	Personalized testing kits for testing Residual Chlorine level at delivery points	Smart Automation	Hardware	SIH1569
27	Tech Titans	Srijani Tribedi	Downscaling of satellite based air quality map using AI/ML	Clean and green technology	Software	SIH1734
28	TEAM AKATSUKI	Somnath Paul	Automated Bus Scheduling and Route Management System for Delhi Transport Corporation	Smart Vehicles	Software	SIH1612
29	CREATIVE CATALYST	Avinandan Chakraborty	Women Safety Analytics – Protecting Women from safety threats	Miscellaneous	Software	SIH1605
30	Stack_Surge	Diptak Sarkar	Mobile App for Direct Market Access for Farmers	Agriculture, FoodTech & Rural Development	Software	SIH1637
31	Marine Mavericks	Diya Sarkar	Research and develop a design on "autonomous water surface cleaning robot".	Clean and Green Technology	Software	SIH1603
32	SURAKSH A SAATHI	Harsh Mishra	Student Innovation	Smart Automation	Hardware	SIH1540
33	Infinity	Rajdip Ghorai	Development of a non-electrical device for tracking the movement of the sun for movement of the solar panels, increasing their efficiency.	Renewable / Sustainable Energy	Hardware	SIH1545
34	SECURE HIVE	Ushasi Bag	Women Safety Analytics – Protecting Women from safety threats	Miscellaneous	Software	SIH1605
35	Cruel Knights	Oneeka Kundu	Mobile App for Direct Market Access for	Agriculture foodtech and rural development	Software	SIH1637



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			Farmers			
36	Edu.ITians	Abhiroop Mukherjee	Develop Software Solutions to Enhance Educational Infrastructure and Connectivity in Rural Areas	Miscellaneous	Software	SIH1664
37	Fearless Achievers	Amit Kumar Shaw	Health Data Information and Management System Mobile Application (HDIMIS)	MedTech/BioTech/Health Tech	Software	SIH1626
38	Senescent	Debayan Ghosh	Online Chatbot based ticketing system	Travel & Tourism	Software	SIH1648
39	Energons	Upayan Chakraborty	A smart AI based solution for traffic management on routes with heavy traffic from different directions, with real-time monitoring and adaptation of traffic light timings	Smart Automation	Software	SIH1607
40	SYNTAX ERROR	Sunit Das	Assured Contract Farming System for Stable Market Access	Agriculture, FoodTech & Rural Development	Software	SIH1640
41	Vengram	Saikat Jana	Student Innovation	Miscellaneous	Software	SIH1588
42	Ti - Team of inn.Thinkers'	Subham Mondal	Mentor Connect	Smart Education	Software	SIH1630
43	Aikyam	Sushmita Kumari Mahato	Student Innovation	Smart Education	Software	SIH1586
44	ByteBenders	Jay Deb	Student Innovation	Clean & Green Technology	Software	SIH1592
45	Agro Bytes	Ushasi Bag	Smart Irrigation System for Precision Farming	Agriculture, FoodTech & Rural Development	Hardware	SIH1554



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46	Team Bots	Tuhin Kumar Singha Roy	Mobile App for Direct Market Access for Farmers	Agriculture, FoodTech & Rural Development	Software	SIH1637
47	Electro Infinity	Samrat Hazra	Student Innovation	Renewable / Sustainable Energy	Hardware	SIH1530
48	TRIAD	Ankur Banerjee	Women Safety Analytics - Protecting Women from safety threats	Miscellaneous	Software	SIH1605
49	Nerd Herd	Nishka Shrimali	AI based Customized time slot Delivery of Articles/Parcels " To align with the needs of the modern lifestyles of customers and their expected time of availability at the home or office address where an item needs to be delivered, the time slot can be decided in consultation with the customer based on an AI Driven correspondence system as per demand/request of the Sender or Receiver"	Transportation & Logistics	Software	SIH1761
50	Aiding Soldiers	Soumaditya Deb	Microphone array-based direction of arrival for gunshot detection	Miscellaneous	Software	SIH1651
51	Brainless Fellas	Ayush Kumar Choudhary	A modern approach in the sewage maintenance using IoT sensors and Transducers	Clean & Green Technology	Hardware	SIH1532
52	Team	Supriyo	Student	MedTech / BioTech /	Software	SIH1597



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	Optimizers	Ghosh	Innovation	HealthTech		
53	Paryas	Rahul Kumar Shaw	The technological solutions for capturing AQI values through mobile and other forms of stations	Clean & Green Technology	Software	SIH1616
54	Innovators	Rahul Kumar	Online Chatbot based ticketing system	Travel & Tourism	Software	SIH1648
55	Hackademics	Biswarup Saha	Creating intelligent devices to improve the commutation sector	Smart Vehicles	Software	SIH1595
56	Hackathon.com	Soumyajit Sarkar	Innovating for Sustainability: Driving Smart Resource Conservation (Energy & Water) in Home Appliances (Refrigerators, Air Conditioners, Washing Machines and Desert Air Coolers)	Smart Resource Conservation	Software	SIH1524
57	IRATERS	Devanshu Sharma	Women Safety Analytics – Protecting Women from safety threats	Miscellaneous	Software	SIH1605
58	THE MAJESTIC RETREAT	Titli Purkait	STUDENT INNOVATION	TRAVEL & TOURISM	Software	SIH1591
59	THE ACHIEVERS	Ansh Gupta	Development of a non-electrical device for tracking the movement of the sun for movement of the solar panels, increasing their efficiency.	Renewable / Sustainable Energy	Hardware	SIH1545
60	Tech Travellers	Ismail Sk	Development of a mobile application to	Travel & Tourism	Software	SIH1656



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			provide recreational suitability information of beach locations across India.			
61	Hacktivate	Swarnabha Ghosh	Queuing models in OPDs/ availability of beds/ admission of patients. A hospital based solution is ideal which can be integrated with city wide module	MedTech / BioTech / HealthTech	Software	SIH1620
62	Next Tech	Sayan Bhattacharjee	Online Chatbot based ticketing system	Travel and Tourism	Software	SIH1648
63	Hackwave	Bishnu Bhakat	Mobile App for Direct Market Access for Farmers	Ministry of Agriculture and Farmers Welfare	Software	SIH1637
64	THE ARCHONS	Sulabh Kumar Shaw	Online Chatbot based ticketing system	Travel & Tourism	Software	SIH1648
65	Tiny Coders	Archana Rai	Mental health and Academic Pressure	Fitness & Sports	Software	SIH1599

9. Twitter/FB/Linkedin for the event organized and promoted on your social media-

INSTAGRAM: https://www.instagram.com/p/C_74h3ey4tK/?igsh=MXy0bHcxM2RrM2I00A==

FACEBOOK:

<https://www.facebook.com/100076310046734/posts/pfbid027sH5sxaK7raav9X9LMpm7LC7x31vDuqHjZXnJk14WpTA6fLrY5mFnLp4DAuvHicTl/?sfnsn=mo>

10. Use of hashtags such as #sih2024 #smartindiahackathon2024 is must / 11. Tag official page of innovation cell, ministry of education on twitter.

https://x.com/IICMCKVIE/status/1835273888781005100?t=8fKsaMbLLuIryN7_Qb-nzg&s=08

Arkadeep Goswami

Arkadeep Goswami

SPOC, SIH 2024
Asst. Professor, CSE
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