RCC Institute of Information Technology (C-6159)
Canal South Road, Beliaghata, Kolkata – 700015
Website: www.rcciit.org.in

REPORTS ON INTERNAL HACKATHON SMART INDIA HACKATHON-2023

Summary

Venue	Date	Time	Total Teams	Female	Male
RCCIIT New Campus 5 Pagla Danga Main Road, Beliaghata, 700015, Kolkata, WB	23/09/2023	12:30pm – 6:00pm	60	114	246

- **About the Event**

Smart India Hackathon is a flagship hackathon event conducted every year by MOE Innovation Cell, AICTE and other associate bodies of Govt. of India throughout the country. Students of different colleges and schools can participate in this event.

RCC Institute of Information Technology (C-6159) is promoting the event among its students since its inception. Apropos to the protocol of the event Institution's Innovation Council (IIC), Internal Quality Assurance Cell (IQAC) and Student Welfare Committee (SWC) have conducted this event on 23-September-2023 throughout the day in its campus at 5 Pagladanga main Road. 60 teams participated on the final day of the event and 30 teams were selected across 10 panels along with 5 teams on reserve. Student took immense initiative along with their mentors to prepare for the events and their efforts were immensely praised by the jury members. However the competition was really tough, all teams contested with best of their spirits and they also enjoyed this innovation extravaganza.

- **About the Problem Statement**

Problem Statements selected by Participating Teams
(SIH-1280) : Development of e-Portal for facilitating Case Management Hearing of various types of cases
(SIH-1284) : Developing a Blockchain-Based eVault for Legal Records
(SIH-1285) : AI-powered Legal Documentation Assistant
(SIH-1287) : Use of Digital Technology to calculate water footprints for different daily use items.

Problem Statements selected by Participating Teams
(SIH-1293) : Automatic regulation of valves for release of water based upon soil moisture availability in the root zone of the crop, using artificial intelligence, in a piped and micro irrigation network of irrigation system.
(SIH-1294) : Estimation of inflow to a reservoir from the rainfall considering soil moisture in its catchment and releases from upstream reservoirs and automatically opening of reservoir gates for moderately releasing the water to avoid the flooding in a basin.
(SIH-1295) : Dashboard for real-time monitoring of construction projects
(SIH-1300) : Automated Public Lighting
(SIH-1316) : Application of Image Analytics for Tree enumeration for diversion of Forest Land.
(SIH-1326) : Ideate and implement a system to enhance the quality of education in rural areas.
(SIH-1327) : Developing A System for Patient Care in the Health Sector
(SIH-1333) : Udyog Saarthi App - (Progressive Web-based Application) for Adults undergoing Job coaching for opportunities under 4% reservation in NIEPMD and other Institutions.
(SIH-1343) : Identification of Different Medicinal Plants/Raw materials through Image Processing Using Machine Learning Algorithms
(SIH-1347) : A software that suggests drugs and formulations for a disease / pharmacological property based on the Ayurvedic classical books/Repositories.
(SIH-1357) : Sentiment analysis of Social Media presence
(SIH-1362) : Student dropout analysis for school education
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(SIH-1363) : Self-identifying the mental health status and get guidance for support.
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(SIH-1363) : Self-identifying the mental health status and get guidance for support

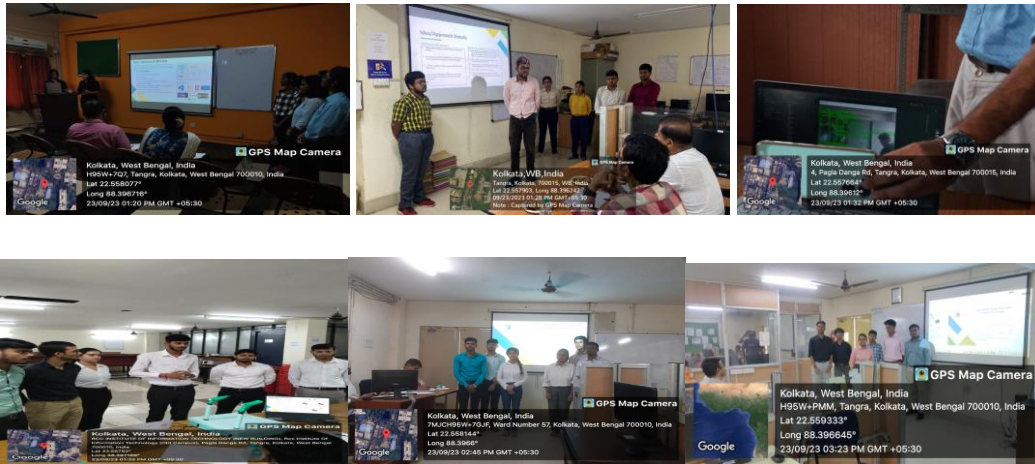| Problem Statements selected by Participating Teams |
| :---: |
| (SIH-1365) : Online Blockchain based certificate generation and validation system for government organization. |
| (SIH-1367) : To develop a technical solution for enabling Institution level verification of students of one State studying in other State/s, who are at present generally denied benefits under the Scholarship scheme as the Institutions in which they are studying are not registered on the portal/s of their home State. |
| (SIH-1369) : Online integrated platform for projects taken up by students of various universities/colleges |
| (SIH-1369) : Online integrated platform for projects taken up by the students of various universities/colleges |
| (SIH-1382) : Real-Time Vehicle Tracking system. |
| (SIH-1382) : Real-Time Vehicle Tracking system |
| (SIH-1392) : E-Waste Facility Locator |
| (SIH-1393) : Water and Electricity Tracking App |
| (SIH-1395) : IoT based sensor can be used to determine the machine runtime |
| (SIH-1401) : App-Based Solution to identify and solve disease in plants/crops |
| (SIH-1418) : Deep learning for terrain recognition |
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| (SIH-1427) : Call for Toilet Technology |
| (SIH-1431) : Online personalized learning remediation/tutoring tool. Search for best teacher for specific topics. |
| (SIH-1433) : Mental health and well-being surveillance, assessment and tracking solution among children. |
| (SIH-1434) : Making career choices and AI based counselling accessible to every child at secondary level along with aptitude tests and detailed career paths. |
| (SIH-1454) : Create an intelligent system using AI/ML to detect phishing domains which imitate look and feel of genuine domains |

Problem Statements selected by Participating Teams
(SIH-1456) : Speech to text transcription for Indian languages. The problem entails transcription in the native script and then translation to English. The languages of interest are Hindi, Indian English, Urdu, Bengali, Punjabi.
(SIH-1465) : A unified portal for developing a model curriculum for all the AICTE approved Institutes
(SIH-1467) : Student Innovation
(SIH-1471) : Student Innovation
(SIH-1472) : STUDENT INNOVATION
(SIH-1474) : STUDENT INNOVATION
(SIH-1474) : Student Innovation
(SIH-1475) : Student Innovation
(SIH-1486) : Student Innovation
(SIH-1487) : Student Innovation
(SIH-1488) : Student Innovation
(SIH-1492) : Automated ambulance booking system with automated hospital guidance.
(SIH-1497) : Student Innovation
(SIH-1512) : Centralized Monitoring System for Street Light Fault Detection and Location Tracking
(SIH-1512) : Centralized Monitoring System for Street Light Fault Detection and Location Tracking

▪ **Event Photos**

A few selected photographs of the internal hackathon for SIH 2023 are given below and rest of the photographs are included in the drive (Link: https://drive.google.com/drive/folders/1NfPR65P0CXp1Cp-dXgvPQ0LOafrvPmCh?usp=drive_link)

▪ **Participating Teams**

A few selected photographs of the internal hackathon for SIH 2023 are given below and rest of the photographs are included in the drive (Link: https://drive.google.com/drive/folders/1NfPR65P0CXp1Cp-dXgvPQ0LOafrvPmCh?usp=drive_link)

▪ **Judging Process**

We have received 73 team nominations for RCCIIT (C-6159) out of which 67 teams were invited to participate in Internal Hackathon after initial rounds of scrutiny and 60 teams turned up on 23-September-2023.

Teams were evaluated by external judges out of 30 on following parameters;

1. Innovativeness beyond problem statement (5)
2. Strength of idea (5)
3. Uniqueness (5)
4. Presentation and teamwork (5)
5. Prototype readiness (10)

Top 3 teams from each panel are going to be nominated directly for the next round of SIH 2023. There were 10 panels. **List of top 30 teams** chosen by the judges based on their performance for onward nomination in Smart India Hackathon 2023 next round is enclosed.

Additionally, **5 teams are kept in reserve** as per the guidelines of Internal hackathon for Smart India Hackathon 2023.

▪ **Jury Panel**

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▪ **Nominated Top Teams**

Team No	Team Name	PS No	Statement	MENTOR	MEMBERS
			TOP 30 TEAMS		
1	Hyperion Ridge	SIH-1497	Student Innovation	Arijit Ghosh	Ranit Das, Malla Vidhisha , Gracy Ghosh, Sanjiban Dey, Nishant Kumar Roy, Arunima Mondal
5	SANITATION TECHIES	SIH-1427	Call for Toilet Technology	Budhaditya Biswas	Subhasish Khan, Subhajit Biswas, Shahobir Alam, Antara Dey Sarkar, Surjendu Manna, Aparajita Majumder
6	ECO TECH TITANS	SIH-1474	STUDENT INNOVATION	Dr. Arpan Deyasi	SREYA SAHOO, CHANDRIMA DAS, ARGHADEEP SAHA, NEELANJAN JANA, BRATATI BASU, HIRAK SABUI
9	KINESIA	SIH-1327	Developing A System for Patient Care in the Health Sector	Dr. Debasish Mondal	Snehasis Bhowmick , Avijit Biswas , Ishan Basu, Arpan Dey , Souravi Samui , Soumili Guha
11	EcoSorters	SIH-1474	Student Innovation	Dr. Soham Sarkar	Ronit Roy , SUBHADIP BERA, BINAYAK MUKHERJEE , AHONA GHOSAL, ARYAN SINGH, HIMANSHU SHARMA
13	Power Saver Squad	SIH-1300	Automated Public Lighting	Pampa Debnath	RAIMA TALUKDAR, SWETA MAJUMDER, SHRIJA ROY, JEET SAHA, INDRANIL DUTTA, SWARUP GHOSH
19	CodeCrafters	SIH-1362	Student dropout analysis for school education	Arup Kumar Bhattacharjee	Abhigyan Chakraborty, Sampriti Ghosh, Soumyajit Bag, Madhushri Nag, Ranit Das, Risav Kumar Jana
20	VideHack	SIH-1471	Student Innovation	Arup Kumar Bhattacharjee	Neelkalpa Majumder, Mayukh Haldar, Harsh Prakash, Souradipta Saha, Anik Biswas, Ahana Saha
21	Code4Bucks	SIH-1347	A software that suggests drugs and formulations for a disease / pharmacological property based on the Ayurvedic classical books/Repositories.	Arup Kumar Bhattacharjee	Anish Agarwal, Shauryam Dubey, Ankit Kumar, Anwesha Das, Abhishek Shandilya, Atanu Biswas
23	HEXON	SIH-1465	A unified portal for developing a model curriculum for all the AICTE approved Institutes	Bishal Ghosh	Soham Saha, Debanjali Ray, Atanu Chakraborty , Mriganka Sarkar, Subham Kundu, Koustav Das

Team No	Team Name	PS No	Statement	MENTOR	MEMBERS
27	Mindfyst	SIH-1363	Self Identifying the mental health status and get guidance for support.	Dr. Anup Kumar Kolya	Rwitam Ray , Shibangi Chatterjee , Sagnik Sarkar, Anirban Kar, Sohel Datta, Supravo Biswas
28	Dronacharya	SIH-1488	Student Innovation	Dr. Arpan Deyasi	Aritra Mitra, Siddharth Bhattacharjee, Soumak Ghosh, Deboparna Bhattacharjee, Riyan Sarkar, Swapnamoy Ghosh
29	ECO_DIOT	SIH-1395	IoT based sensor can be used to determine the machine runtime	Dr. Arpan Deyasi	Samadrita Nag, Diptadip Barai, ABHISHIKTA DEY, Satwik Das, Arnoraj Sarkar , Saptarshi Majumder
33	HealthLink Architects	SIH-1492	Automated ambulance booking system with automated hospital guidance.	Dr. Hiranmoy Roy	Md Hasanuj Jaman Hossain, Ayana Dasgupta, Md. Saood Khan, Arnab Sen , Rajarshi Sengupta , Swetangshu Saha
34	Free Thinkers	SIH-1367	To develop a technical solution for enabling Institution level verification of students of one State studying in other State/s, who are at present generally denied benefits under the Scholarship scheme as the Institutions in which they are studying are not registered on the portal/s of their home State.	Dr. Hiranmoy Roy	Pratik, Kumar Purushottam, MD Faizan Ansari , Talmeez Akhtar , Ritwika Pal, Sajjan Brahma
36	HackSpiration	SIH-1284	Developing a Blockchain-Based eVault for Legal Records	Dr. Hiranmoy Roy	Riya Roy , Bartick Maiti, Manish Saha, Prerna Sharma, Soham Saha Roy, Shourya Shikhar Ghosh
38	GENZ VOLTZ	SIH-1362	Student dropout analysis for school education	Dr. Hiranmoy Roy	SHAYAK PAL, SAMIRAN ROY, RAKESH MAJI , KOUSHIK DUTTA, PURBASHA HALDER, SUSHENJIT DAS
39	TECHHEX	SIH-1418	Deep learning for terrain recognition	Dr. Hiranmoy Roy	Shrayanendra Nath Mandal, Adrita Chakrabarti, Nasiruddin Thander, Alimpan De, Soumyaraj Bag, Soumyajit Biswas

Team No	Team Name	PS No	Statement	MENTOR	MEMBERS
45	GreenGeeks	SIH-1392	E-Waste Facility Locator	Dr. Soham Sarkar	Rajorshi Mandal, Ayeshee Sinha, KOUSTAV ROY, RISHAV GANGULI, RISHAV PRAMANIK, Rachita basu
46	Cypher	SIH-1343	Identification of Different Medicinal Plants/Raw materials through Image Processing Using Machine Learning Algorithms	Dr. Soham Sarkar	Souvik Panda, RAHUL DAS, PRITAM KUNDU, Rick Mondal, Shreya Shome, Debojit Adhikary
47	Tech_RISERS	SIH-1467	Student Innovation	Dr. Soumen Mukherjee	BINIT KUMAR SEN, Aman Singh, Rohit Kheto, Ritika Nath, SK Shaid Hossain, AISHEE MAJUMDER
50	Innovate Ninjas	SIH-1486	Student Innovation	Koushik Mallick	Rishi Paul, Aditi Ghosh, Prachi Ghosh, Rajarshi Mondal, Debdyuti Mondal, Jyotishka Ghosh
52	WayFinders	SIH-1382	Real-Time Vehicle Tracking system.	Monika Singh	Agniva Bhattacharjee, Arkaprava Chanda, Imam Ghazi Khan, NIRNAYA BETAL , Srinanda Das, Anuradha Adhikari
54	HOLIDAY	SIH-1326	Ideate and implement a system to enhance the quality of education in rural areas.	Monika Singh	Swagat Santra, Diptesh Sen, Arijit Mandal, Aryan Roy, Anish Jana, Tanishka Chatterjee
57	Medic celestia	SIH-1363	Self-identifying the mental health status and get guidance for support.	Ranjan jana	Priyanshu dutta, Amartya Sankar Das, Yash Sarma, Ankit biswas, Shruti Samanta, Ayan chakroborty
58	Vajrā	SIH-1487	Student Innovation	Sarbojit Mukherjee	Soumyadeep Das, Trinjan Dutta , Saptadeep Banerjee , Ayantika Mandal, Amit Kumar Jha , Dwaipayan Bhattacharjee

Team No	Team Name	PS No	Statement	MENTOR	MEMBERS
61	Error404	SIH-1285	AI-powered Legal Documentation Assistant	Souvik Majumdar	Swastika Bose, SHUVANGI DE, SANSRITA SAHA, SHREYA SARKAR, DEBOPOM BANERJEE, ARPAN GHOSH
63	Nocturnals	SIH-1434	Making career choices and AI based counselling accessible to every child at secondary level along with aptitude tests and detailed career paths.	Souvik Majumder	Swapnendu Banerjee , Sagnik Datta , Palas Saha, Arghya Dutta, Adrita Chakraborty , Sambit Sarkar
65	BuildTrackers	SIH-1295	Dashboard for real-time monitoring of construction projects	Sujoy Mondal	Abhraneel Roy, Sayantan Mondal, Sayan Chakraborty, Shuvadip Chowdhury, SWASTIK ROY CHOUDHURY, Rupsha Sarkar
67	Tech Hustlers	SIH-1363	Self-identifying the mental health status and get guidance for support	Swapan Shakhari	Sushmita Nag , Anubhab Natta, Disha Mitra, Ananya, Amitava Das, Atanu Kumar Bera
RESERVE 5 TEAMS					
12	Photon Pioneers	SIH-1512	Centralized Monitoring System for Street Light Fault Detection and Location Tracking	Pampa Debnath	Mozammil Rahman, Aman Jha, Debaali Gomasta, Deepanshu Deep, Giridhar Gopal Gupta, Rajiv Kumar Poddar
15	EnviroNerds	SIH-1392	E-Waste Facility Locator	Anirban Dey	Chayandev Bera , Souvik Bhattacharya , Raj Mandal, Urbi Chakraborty , Satatya Dey, Rajdeep Mandal
22	SOUL CELESTIA	SIH-1363	Self-identifying the mental health status and get guidance for support.	Bishal Ghosh	Ankita Paul, Subhajit Paul, Ankan Das, Sayantani Biswas, Anouska Debnath , Nandini Burman

Team No	Team Name	PS No	Statement	MENTOR	MEMBERS
42	Cyber Mavericks	SIH-1369	Online integrated platform for projects taken up by the students of various universities/colleges	Dr. Indrajit Pan	SAMBIT HALDAR, Archisman Mandal, Siddharth Kumar Chranpahari, Debdyuti Paul, Anurupa Saha, Dipta Debnath
59	Decoders	SIH-1280	Development of e-Portal for facilitating Case Management Hearing of various types of cases	Somenath Nag Choudhury	Dibakar Banerjee , Pratyush Pal, Romit Guha, Subhadeep Dhar , Shreedatri Saha , Soumyaraj Sarkar

▪ **Judges Information**

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4	Mr. Anirban Bhowmick Principal Consultant, Informatica Business Solutions Pvt. Ltd	7980874104 cityofjoy.ami@gmail.com

Sl.	Name & Designation	Mobile/ Email
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19	Mr. Abhirup Biswas Senior Associate, PwC India	9007496870 abhirupbiswas100@gmail.com
20	Mrs. Sreyashi Mukherjee Research Fellow, Indian Institute of Technology, Kharagpur	9477586867 sreyashi1995@gmail.com

- **Participation Statistics**

    o Total teams participated: 60
    o Female participants: 114
    o Male participants: 246

- **News Articles**

    https://www.telegraphindia.com/edugraph/campus/rcc-institute-of-information-technology-to-organise-internal-smart-india-hackathon-2023/cid/1967122?utm_source=whatsapp&utm_medium=social&utm_campaign=whatsapp_edugraph

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