



Smart Bengal Hackathon (SBH)-2023

(An initiative of Institution's Innovation Council (IIC))

(11th April, 2023 – 12th April, 2023)

Organized by:



RCC Institute of Information Technology

Canal South Road, Beliaghata, Kolkata-700015

(A Unit of RCC Institute of Technology an autonomous Society of Department of Higher Education)

Govt. of West Bengal

Supported by:



Department of Information Technology & Electronics

Government of West Bengal

Event Report

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Acknowledgment

The event **Smart Bengal Hackathon (SBH)-2023** was impossible for us without the efforts and valuable inputs from the faculties, staffs and students of the college. We are here extending our great gratitude and appreciation to the following persons with their memorial inputs that are very significant in making this event possible.

We are extremely grateful to our honorable, Minister-in-Charge, **Mr. Babul Suprio**, Dept. of Information Technology & Electronics & Dept. of Tourism, Govt. of West Bengal, for his gracious presence, inspiring talk and inauguration of this event.

We are thankful to **Prof. (Dr.) Aloknath De, Chief Mentor, SBH**, who has constantly motivated and supported us to conduct the event and inculcate knowledge amongst us, especially at the initiation and decision making of the event.

Next we really acknowledge our **Principal (O), Prof. (Dr.) Anirban Mukherjee**, for his continuous support and guidance in each and every stage for successfully organization of the event and

We also recognize **all HODs** of the institute who have been very supportive to us and were always ready for solving any issue related to events.

We also acknowledge Coordinators & Joint Coordinator of the event **Prof. (Dr.) Alok Kole** and **Dr. Hiranmoy Roy**, who have been giving tremendous efforts by their professional and academic experience, fairness, and responsiveness for organizing this event.

We acknowledge the contribution of the institute **Training & Placement Cell** and **Industry Institute Partnership Cell (IIPC)** for promoting this event to the industries and arranging technical and financial sponsorship.

We also respect the contribution of other Teaching, non-Teaching and maintenance staffs of the institute also other external personal involved with decoration and catering in this event.

We appreciate our student **Aritra Basu, CSE-4th Yr, Srinanda Das, CSE-3rdYr, Swastika Bose, CSE-2nd Yr, Arkaprava Munshi, IT-3rd Yr** and all the student members of the SBH committee and Student Welfare committee for their whole hearted hard working for organization of this mega event.

Lastly thanks to the organizing team, Coordinators and Jt. Coordinators of the different sub-committee of the SBH and also the members of Students Affair & Student Welfare Committee (SASWC), RCCIIT, for sparing their valuable time and sincere effort to make the event successful.



About Smart Bengal Hackathon (SBH)

Smart Bengal Hackathon (SBH) 2023 is a state-wide initiative to provide engineering and school students to solve some of the common problems we face in our daily life, and thus inculcate a culture of product innovation and a mind-set of real time problem solving. The event initiated by the **Institution's Innovation Council (IIC)**, **RCCIIT** and organized as a part of the Institute's annual event **Techtrix 2023**.

The event received major financial support from the Department of Information Technology & Electronics, **Govt. of West Bengal**. The other reputed companies and organizations like *NriFinTech*, *VibrantMind Technologies*, *Tectes Technologies*, *LYNX (Lawrence & Mayo)*, *C-DAC*, and *BergerPaintetc* are also offered financial sponsor in this event.

The whole event was composed with two different categories of programs: (i) SBH-Junior & (ii) SBH-Senior.

SBH-Junior: In this category school Students from Class IX to XII standard & the students of the Polytechnic Colleges (AICTE Affiliated) are invited to participate. The awarded prizes for the SBH-junior are **1st prize- Rs. 20,000; 2nd Prize-Rs. 15,000 and 3rd Prize-10,000**

SBH-Senior: In this category student of College or University, pursuing any of the following programme, B.Sc. / BCA/BBA/BE/B.Tech/M.Sc/MCA/MBA/ME/M.Tech/Ph.D. (Science)/ Ph.D. (Engineering)/ Ph.D. (Management) are invited to participate. The awarded prizes for the SBH-senior are **1st prize- Rs. 30,000; 2nd Prize-Rs. 20,000 and 3rd Prize-Rs. 15,000**

Besides above event prizes different reputed companies e.g., Cognizant, NRI FinTech, IBM, HCL, Taskade, etc along with some leading start-ups also offered special award and paid internship for the best solution against the given problem statement.

Participants are invited to submit their innovative ideas according to their choice of concerned against **16 Themes** and **36 Problem Statements** like AI, IOT, Machine Learning, and Block-chain etc. in a Group or Team (Max 3 students) with a Mentor. A mentor can be selected from Industry/Academia who has relevant experience and qualification to guide a team.

Registration for SBH 2023 was commenced on 28thFeb. 2023 and it has been closed on 31st March 2023. There was no Registration Fee for IDEA submission and participation in the event. Around 500 idea submission received from different reputed colleges and schools from West Bengal and other outside states. Out of which **71 teams** from SBH-senior and **26 teams** from SBH-junior categories are selected for idea presentation in the final round. Selected team with Mentor has to participate in the Grand Finale at RCC Institute of Information Technology campus at Beliaghata, Kolkata, West Bengal.

The event continued for 02 full days on 11th and 12th April at RCCIIT. The SBH-Junior was held on 11th April and SBH-senior was on 12th April. Around 14 jury members from the mainframe industries, renowned academic and research institutes are involved for the evaluation process. Each team faced 02 round evaluation process from the judges. The result declaration and certificate distribution to the participants was held at end of the event on 12th April.



Outcomes of SBH

- **Ingenious:** Harnessing creativity and expertise of students, academicians and visionaries.
- **Engaging:** Sparking institute-level hackathons, fuelling imagination of the students.
- **Futuristic:** Building funnel for 'Start-up India' campaign
- **Collaborative:** Crowd sourcing intelligence for improving governance and quality of life
- **Empowering:** Enabling possibilities and enhancing opportunities for citizens to deliver innovative solutions to India's daunting problems



SBH Themes

1		Smart Vehicle: Creating intelligent devices to improve commutation sector.
2		Robotics and Drones: There is a need to design drones and robots that can solve some of the pressing challenges of India such as handling medical emergencies, search and rescue operations, etc.
3		Disaster Management: Disaster management includes ideas related to risk mitigation, Planning and management before, after or during a disaster.
4		Smart Education: Smart education, a concept that describes learning in digital age. It enables learners to learn more effectively, efficiently, flexibly and comfortably.
5		Smart Automation: Ideas focused on the intelligent use of resources for transforming and advancements of technology with combining the artificial intelligence to explore more various sources and get valuable insights.
6		Intelligent Transportation and Logistics: Submit your ideas to address the growing pressures on the city's resources, transport networks, and logistic infrastructure.
7		Clean/Green Technology: Solutions could be in the form of waste segregation, disposal, and improve sanitization system.
8		Renewable and Sustainable Energy: Innovative ideas that help manage and generate renewable /sustainable sources more efficiently.
9		Block chain and Cyber security: Provide ideas in a decentralized and distributed ledger technology used to store digital information that powers crypto currencies and NFTs and can radically change multiple sectors.



10		<i>Fitness and Sports:</i> Ideas that can boost fitness activities and assist in keeping fit.
11		<i>Agriculture, Foodtech and Rural Development:</i> Developing solutions, keeping in mind the need to enhance the primary sector of India - Agriculture and to manage and process our agriculture produce.
13		<i>IOT with AI:</i> Submit your idea on Artificial intelligence technologies with the Internet of things infrastructure to achieve more efficient IoT operations, improve human-machine interactions and enhance data management and analytics.
14		<i>Data Privacy and Anonymisation:</i> Submit your idea and develop a tool which can access data and anonymize it, so that privacy of the person is protected in compliance with proposed Digital Personal Data Protection Bill, 2022 (to be enacted shortly). With this tool, live transactional data can be made accessible to various stakeholders without violating privacy.
15		<i>Miscellaneous:</i> Technology ideas in tertiary sectors like Hospitality, Financial Services, Entertainment and Retail.
16		<i>Open Innovation:</i> Participants can submit their innovative ideas according to their choice of concerned theme irrespective of the already present problem statements.



SBH Problem Statements

There are Total 36 Problem Statements: 21 no. Software Category, 15 No. Hybrid Category

Sl.No.	Organization/ Company Name	Problem Statement Title	PS Number	Category	Domain Bucket	Applicable For
		Open innovative ideas for hackathon are accepted	SBHRCCIITXXX	All	Open Innovation	SBH Senior/Junior
1	Novacle Technologies	How can a system are built to clean the actual information from the unwanted in digital platforms that are involved in real-time decision making.	SBHRCCIIT005	Software	Artificial Intelligence	SBH Senior
2	Novacle Technologies	With the digital transformation personal data has become extremely vulnerable and requires 360 degree protection to individuals.	SBHRCCIIT006	Software	Artificial Intelligence	SBH Senior
3	Novacle Technologies	Incubation centres are not well equipped to host next generation entrepreneurs, yet.	SBHRCCIIT007	Hybrid	Smart Education	SBH Senior/Junior
4	NextMedIT	AI based health monitoring system.	SBHRCCIIT012	Software	Biotech and healthcare	SBH Senior/Junior
5	NextMedIT	IOT based potholes tracking.	SBHRCCIIT013	Hybrid	Smart management, IoT and AI	SBH Senior/Junior
6	RCC Institute of Information Technology, Kolkata	Create a smart farming system to increase agricultural yields and decrease waste.	SBHRCCIIT001	Hybrid	Agriculture , Foodtech and Rural Development	SBH Senior/Junior
7	RCC Institute of Information Technology, Kolkata	Create a smart transportation network to ease traffic and boost performance.	SBHRCCIIT002	Hybrid	Intelligent Transportation and logistics	SBH Senior/Junior



Sl.No.	Organization/ Company Name	Problem Statement Title	PS Number	Category	Domain Bucket	Applicable For
8	RCC Institute of Information Technology, Kolkata	Enhance rural Bengal's access to high-quality medical care.	SBHRCCIIT003	Hybrid	Biotech and healthcare	SBH Senior/Junior
9	RCC Institute of Information Technology, Kolkata	Detecting and monitoring the effect of pesticides in agriculture.	SBHRCCIIT004	Hybrid	Smart Automation	SBH Senior/Junior
10	Cyber-Physical Systems Co.	How do we identify heritage buildings and monuments using deep learning and other AI techniques.	SBHRCCIIT024	Software	AI/ML	SBH Senior/Junior
11	Cyber-Physical Systems Co.	How to integrate annual academic and public exam calendars for Bengal colleges/Universi ty?	SBHRCCIIT025	Software	Artificial Intelligence/ Smart Education	SBH Senior/Junior
12	Cyber-Physical Systems Co.	Facial or visual analytics to detect mental stress or emotion	SBHRCCIIT026	Hybrid	AI/ML and Smart Automation	SBH Senior/Junior
13	Cyber-Physical Systems Co.	Algorithmic solution to help public finding EV charging infra in a city	SBHRCCIIT027	Hybrid	IoT and AI/ML	SBH Senior/Junior
14	Cyber-Physical Systems Co.	How to maintain cyber hygiene or screen time for children? Method to find digital detox.	SBHRCCIIT028	Software	Cyber security	SBH Senior/Junior
15	Cyber-Physical Systems Co.	How to track, manage, and reuse food wastage?	SBHRCCIIT029	Hybrid	Agriculture , Foodtech and Rural Development	SBH Senior/Junior
16	SimphealInformst ics Private Limited	Identity the users from their pre-information.	SBHRCCIIT014	Software	Biotech and healthcare	SBH Senior
17	Accenture	To build more inclusive society to build an app for Pet Parents which can cater to all needs of Pets including when Pet Parents travel	SBHRCCIIT035	Software	Artificial Intelligence	SBH Senior/Junior
18	Fin Tech	AI to help improve customer experience in the capital market	SBHRCCIIT034	Software	Artificial Intelligence	SBH Senior/Junior











Sl.No.	Organization/ Company Name	Problem Statement Title	PS Number	Category	Domain Bucket	Applicable For
		domain				
19	WebSofttechs	AI Tool for generating an eye catching website design using voice and by analyzing answers	SBHRCCIIT008	Software	Smart Automation	SBH Senior/Junior
20	WebSofttechs	Create a smart human-less Medicine Vending machine (All Time Medicine)	SBHRCCIIT009	Hybrid	Smart Automation / Biotech and healthcare	SBH Senior
21	WebSofttechs	Auto generate sign language interpretation from online training videos for aphasic people.	SBHRCCIIT010	Software	Smart Education	SBH Senior/Junior
22	WebSofttechs	Indoor GPS System for real time tracking of inventory.	SBHRCCIIT011	Hybrid	Intelligent Transportation and logistics	SBH Senior/Junior
23	CodeData Advanced Analytics Solutions Pvt. Ltd	A Novel Solution Is Required To Be Developed To Monitor The Performance And To Predict The Preventive And Corrective Maintenance Of The Industrial Machines Using IOT Sensor	SBHRCCIIT021	Hybrid	IoT	SBH Senior/Junior
24	ISOAH Data Securities Pvt.Ltd	Data governance Tool to enforce upcoming Data protection and Privacy Law	SBHRCCIIT036	Hybrid	Artificial Intelligence	SBH Senior/Junior
25	Tectes Technologies Private Limited	Cheque Book Leaflet Data Extraction	SBHRCCIIT018	Software	AI/ML	SBH Senior/Junior
26	Tectes Technologies Private Limited	Passenger Volume analysis and footfall prediction for 4th of July	SBHRCCIIT019	Software	AI/ML	SBH Senior/Junior
27	SysCentric Technologies	To create interactive images(sensors) in a Mobile app (one male and one female) in both Android and in iOS (Hybrid App)	SBHRCCIIT020	Software	HealthTech	SBH Senior/Junior



Sl.No.	Organization/ Company Name	Problem Statement Title	PS Number	Category	Domain Bucket	Applicable For
28	AshtikSofttech(P) Limited	The Class Timetabling Problem	SBHRCCIIT015	Software	Smart Automation	SBH Senior/Junior
29	virtualinfocom	Create a solution for OTP fraud via calling and sending msg to victims - your electric connection will be cut	SBHRCCIIT032	Software		SBH Senior/Junior
30	virtualinfocom	AR application to see growth of any plant and detect and understand plant health in AR	SBHRCCIIT033	Hybrid	Artificial Intelligence	SBH Senior/Junior
31	Entiovi Technologies	Accurate and efficient way of estimating the expected time of arrival (ETA) for different modes of city transport.	SBHRCCIIT016	Software	Intelligent Transport & AI/ML	SBH Senior/Junior
32	Entiovi Technologies	Hyper local pollution prediction	SBHRCCIIT017	Software	Environment Tech & AI/ML	SBH Senior/Junior
33	Peers Symantech	Recording periodic Fluid Intake and Output for Critically ill patients in the ICU and create a graph for the clinical observation	SBHRCCIIT022	Software	Biotech and healthcare	SBH Senior/Junior
34	Peers Symantech	Recording the visitors details with his photograph, when he enters an organization premise. Use face recognition techniques to identify the visitor on his repeat visit	SBHRCCIIT023	Software	IoT	SBH Senior/Junior
35	Centre for Development of Advanced Computing (CDAC)	IoT based supply chain management system	SBHRCCIIT030	Hybrid	IoT	SBH Senior/Junior
36	Centre for Development of Advanced Computing (CDAC)	AI based Chatbot for registering cybercrime cases	SBHRCCIIT031	Software	Artificial Intelligence	SBH Senior/Junior



Executive Team

 <p><i>Prof. Abhijit Chakraborty</i> Chief Patron, SBH Chairman, BOM, RCCIIT & Ex.VC of Jadavpur University & Professor of IEST</p>	 <p><i>Mr. Pranabesh Das</i> Patron, SBH Chairman, BOG, RCCIIT, Ex. Director of Technical Education, Govt.of West Bengal</p>
 <p><i>Prof. Anirban Mukherjee</i> Patron, SBH Principal (ofg.), RCCIIT</p>	 <p><i>Dr. Alok Nath De</i> Chief Mentor, SBH Ex. Corporate Vice President of Samsung Electronics and Chief Technology Officer of Samsung R&D Institute, Bangalore, Chair, IEEE Bangalore</p>
 <p><i>Prof. Alok Koley</i> Convener, SBH Professor, Dept. of EE & President of Institution's Innovation Council, RCCIIT</p>	 <p><i>Prof. Amlan Chakrabarti</i> Adviser, SBH Professor and Director, A.K. Choudhury School of Information Technology University of Calcutta</p>
 <p><i>Mr. Joydeep Banerjee</i> Adviser, SBH Global CoC, Mainframe Modernization Service, IBM Consulting</p>	 <p><i>Prof. Swagatam Das</i> Adviser, SBH Associate Professor and Head Electronics and Communication Sciences Unit, ISI, Kolkata</p>



Core Team

 <p>Dr. Alok Nath De Chief Mentor, SBH2023 Ex. Corporate Vice President of Samsung Electronics and Chief Tech. Officer of Samsung R&D Institute, Bangalore, Chair, IEEE Bangalore</p>	 <p>Prof. Alok Kole Convener, SBH2023 Coordinator, Promotion and Sponsorship Sub-Committee</p>	 <p>Dr. Hiranmoy Roy Jt. Convener, SBH2023 Coordinator, Program Design and Technical Sub- committee</p>
 <p>Dr. Hrishikesh Bhaumik Jt. Coordinator, SBH2023 Promotion and Sponsorship Sub- Committee</p>	 <p>Dr. Indrajit Pan Coordinator, SBH2023, Technical Collaborations Sub- Committee</p>	 <p>Dr. Arpan Deyasi, Jt. Coordinator, SBH2023, Program Design and Technical Sub- Committee</p>
 <p>Mr. Soumen Mukherjee Coordinator, SBH2023 Infrastructure, Logistics & Hospitality Management Sub-Committee</p>	 <p>Mr. Sandip Saha Jt. Coordinator, SBH2023 Infrastructure, Logistics & Hospitality Management Sub-Committee</p>	 <p>Prof. Debasish Mondal Coordinator, SBH2023 Finance Sub- Committee</p>
 <p>Dr. Arpita Ghosh Coordinator, SBH2023 Event Management Sub- Committee</p>	 <p>Mr. Sarbojit Mukherjee Jt. Coordinator, SBH2023 Event Management Sub-Committee</p>	 <p>Dr. Abhishek Basu Coordinator, SBH2023 Invitation & Liaison Sub-Committee</p>
 <p>Dr. Srijan Bhattacharya Jt. Coordinator, SBH2023 Invitation & Liaison Sub- Committee</p>	 <p>Dr. Soham Sarkar Coordinator, SBH2023 Publication & Media Sub- Committee</p>	 <p>Dr. Anup Kumar Kolya Jt. Coordinator, SBH2023 Finance Sub- Committee</p>



Faculty & Student Committee

Smart Bengal Hackathon-2023

(Part of Techtrix-2023)

Organizing Committee

Convener: Dr. Alok Kole, President, IIC

Jt.Convener: Dr. Hiranmoy Roy, Member, Technical Sub-Committee, SASWC

<p><u>A. Promotion and Sponsorship Sub-Committee:-</u></p> <ul style="list-style-type: none"> • Dr. Alok Kole, Professor, EE and President, IIC (Coordinator) • Dr. Hrishikesh Bhaumik, Associate Professor, IT & Convener, IIPC (Jt. Coordinator) • Mr. Manas Ghosh, Assistant Professor, CA & FIC, T&P • Mr. Nirmalya Chaudhuri, Advisor, Industry Alliance • Dr. Srijan Bhattacharya, Assistant Professor & HoD, AEIE • Mr. Srikanta Acharya, Assistant Professor, ECE • Mr. Dipan Bandyopadhyay, Assistant Professor, IT 	<p><u>B. Technical Collaborations Sub-Committee:-</u></p> <ul style="list-style-type: none"> • Dr. Indrajit Pan, Professor & HoD, IT & Coordinator, IQAC(Coordinator) • Prof.(Dr.) Debasish Mondal, Professor, EE & Convenor IIC • Dr. Arpan Deyasi, Associate Professor, ECE & Convener, NAAC • Dr. Abhishek Basu, Associate Professor, ECE & FIC, Academics • Mr. Manas Ghosh, Assistant Professor, CA & FIC, T&P
<p><u>C. Program Design and Technical Sub-Committee:-</u></p> <ul style="list-style-type: none"> • Dr. Hiranmoy Roy, Associate Professor, IT (Coordinator) • Dr. Arpan Deyasi, Associate Professor, ECE & Convener, NAAC (Jt. Coordinator) • Mr. Budhaditya Biswas, Assistant Professor, EE • Mr. Sujoy Mondal, Assistant Professor, ECE • Mr. Rajib Saha, Assistant Professor & HoD, CSE • Dr. Pramit Ghosh, Associate Professor, CA • Dr. Soumyadip Dhar, Associate Professor, IT • Mr. Arup Kumar Bhattacharjee, Assistant Professor, CSE • Mr. Anirban Dey, Assistant Professor, CSE • Mr. Subhajit Pathak, Expert Faculty, MeitY Project 	<p><u>D. Infrastructure, Logistics & Hospitality Management Sub-Committee:-</u></p> <ul style="list-style-type: none"> • Mr. Soumen Mukherjee, Associate Professor, IT (Coordinator) • Mr. Sandip Saha, Registrar (Jt. Coordinator) • Mr. ArijitMajumdar, ASA • Mr. Pradip Kumar Das, Dy. Registrar & FA, SASWC • Dr. Anup Kumar Kolya, Assistant Professor, CSE • Mr. Harinandan Tunga, Associate Professor, CSE & FIC, SA & SW • Mr. Palash Ghosh, Assistant TPO • Mr. Bishal Ghosh, Assistant Professor, CSE • Mr. Dileep Kumar, TA, ECE



E. Finance Sub-Committee:-

- Prof. (Dr.) Alok Kole, Professor, EE and President, IIC
- Dr. Debasish Mondal, Professor, EE & Convenor IIC (Coordinator)
- Dr. Anup Kumar Kolya, Assistant Professor, CSE (Jt. Coordinator)
- Mr. Harinandan Tunga, Associate Professor, CSE & FIC, SA & SW
- Mr. Pradip Kumar Das, Dy. Registrar, RCCIIT and FA, SWC

F. Event Management Sub-Committee:-

- Dr. Arpita Ghosh, Associate Professor, ECE (Coordinator)
- Mr. Sarbojit Mukherjee, Assistant Professor, EE (Jt. Coordinator)
- Mr. Soumen Mukherjee, Associate Professor, IT
- Mr. Somenath Nag Choudhury, Assistant Professor, CSE
- Mr. Avishesk Paul, Assistant Professor, AEIE
- Mr. Avijit Saha, Assistant Professor, ESM
- Mrs. Moumita Deb, Assistant Professor, IT
- Mrs. Priya Sen Purkait, Assistant Professor, CSE
- Mr. Subhrajit Sinha Roy, Assistant Professor, ECE
- Mr. Indronil Mazumder, Assistant Professor, IT
- Mr. Dipankar Khorat, Assistant Professor, CS (Non-AICTE)

G. Publication & Media Sub-Committee:-

- Dr. Soham Sarkar, Associate Professor, ECE & Convener, IRC (Coordinator)
- Dr. Indrajit Pan, Professor & HoD, IT & Coordinator, IQAC
- Dr. Abhijit Das, Associate Professor, IT & FIC, Alumni
- Mr. Biswanath Chakraborty, Assistant Professor & HoD, CA
- Mr. Arijit Majumdar, ASA

H. Invitation & Liaison Sub-Committee:-

- Dr. Abhishek Basu, Associate Professor, ECE & FIC, Academics (Coordinator)
- Dr. Srijan Bhattacharya, Assistant Professor & HoD, AEIE (Jt. Coordinator)
- Mr. Somenath Nag Choudhury, Assistant Professor, CSE
- Mrs. Monika Singh, Assistant Professor, CSE
- Ms. Naiwrita Dey, Assistant Professor, ECE
- Dr. Abhijit Das, Associate Professor, IT & FIC, Alumni
- Mr. Amit Khan, Assistant Professor, IT
- Mr. Souvik Majumdar, Assistant Professor, CSE
- Mr. Subhrajit Sinha Roy, Assistant Professor, ECE
- Mr. Indronil Mazumder, Assistant Professor, IT

**The student members from SWC, Tech Clubs and IIC will be included in the different Sub-Committees.*

*** Members as proposed above may be given additional responsibility in Sub-Committee(s) other than the assigned ones depending on their interest and effectiveness; similarly new members may be co-opted.*



SBH Partners & Sponsors

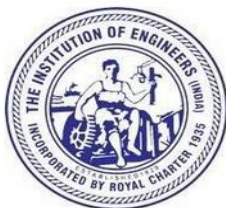
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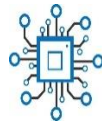


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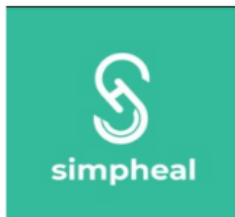
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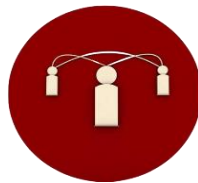
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CodeData Advanced Analytics Solutions Pvt. Ltd.
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Participants

There are around 500+ idea submission received by SBH 2023 from different colleges and schools from the West Bengal as well as from other states outside of the West Bengal. Among which **71 teams** from SBH-Senior category and **26 teams** from SBH-Junior category are accepted after two stages of screening by the expert members.

Accepted list of Teams in SBH-Senior

SL no	Team Name	Player's Name	Player's Email	Player's Mobile
1	Team Hactivators	Ambuj Shukla	ambujpankajshukla@gmail.com	919930987243
2	CTE	Nihal Kumar	nihalk17.iitkgp@gmail.com	919905991993
3	INGENIOUS	Subhasish Khan	ksubhasish444@gmail.com	918777284191
4	FrountBenchEngineers	gururajmundargi	mundargigururaj@yahoo.com	917798575906
5	Slytherin	OIKANTIK BASU	oikantik.basu.cse.2020@tint.edu.in	917001124396
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10	ARJUNA	Jeet Adhikary	jeetofficial2021@gmail.com	916290326740
11	Code Red	Keshav Krishnan	201501023@rajalakshmi.edu.in	917305637023
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17	626373-UN05X5Z1	Pretam Das	palasdas453@gmail.com	917439318049
18	Achievers	B. N. LAKSHMI SUPRIYA MATURU	mbnlsupriya536@gmail.com	919398473074
19	626373-UV3Z0002	Anusha	anusha.22cse@bmu.edu.in	919205993154
20	Byte Bandits	Deepjyoti Purkayastha	deepjyoti.college@gmail.com	916003534813
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26	626373-U13J5D06	Sirsha Dey	deysirsha2468@gmail.com	919330592799
27	Technocrats	Subhodeep Neogi	subhodeepneogi16@gmail.com	918337081510
28	FoxHackerz	Neelkalpa Majumder	majumderneelkalpa@gmail.com	919903356412
29	The Artists	Shubhojit Saha	shubhojit.saha.1.8.2003@gmail.com	919831185620
30	SourceX	Michael Gomes	michaelg17801@gmail.com	919163439756
31	626373-U2BX78P9	Soumayadeep Pal	sree83337@gmail.com	919804608739
32	NWA	Ajinkya Kumbhar	ajinkyakumbhar423@gmail.com	917710821947
33	626373-U20FP573	Avigyan Chowdhury	avigyanofficial27@gmail.com	919073409082
34	626373-U2ZN69P7	DEBOPOM BANERJEE	cse2021123@rccit.org.in	919474943454
35	626373-U308E7AB	Washim Ansari	imwashim5@gmail.com	916205973042
36	INDMEDICO	Abhirup De	abhirupde607@gmail.com	918697085691
37	DeveloperzOG	SUBHAYAN BHATTACHARJEE	tsdiae21@gmail.com	919875305039
38	626373-U5CB702S	Rishav Mukherjee	rishavmukherjee11@gmail.com	918250110934
39	The Donuts	Satrajit Ghosh	satrajitghosh183@gmail.com	917003958120
40	626373-U5MKD320	Shyamsundar Paul	shyam65sundar@gmail.com	918013203665
41	Byte tribe	Abhay Das	welcomeabhay19@gmail.com	918910280549
42	CyberBot	SAYANTAN BHAR	it2020001@rccit.org.in	919051867246
43	key 2 innov@tion	HRISHIKESH DAS	dashrishikesh900@gmail.com	919831846204
44	Epistemeophiles	Sainik Khaddar	sainikwarror132@gmail.com	918697108716
45	TEAM DELIGHT	YARLAGADDA SAI	yarlagaddasai06@gmail.com	919392667704
46	The Kriticks	Krittika Das	hoomanbing.kd@gmail.com	918017758351
47	626373-U89JB4I8	Ayush Paul	paulayus323@gmail.com	917439772170
48	TEAM STACK	Mohammed Sonu	mohammedsonu05@gmail.com	919059177472
49	626373-U8F5B7H3	Saikat Chowdhury	saikatmagician@gmail.com	917980349464
50	626373-U93WNB90	LokenathSaha	lsaha12000@gmail.com	917003797678
51	626373-U9CR924I	Suravi Roy	suraviroy1509@gmail.com	919073593700
52	Titans	Pranav Jadhav	jadhavpranav89@gmail.com	919766178938
53	ML Wizards	Deep Pramanik	pramanikdeep58@gmail.com	919046998384
54	Think Tank 3.0	Sumit Gupta	sgupta@uit.buruniv.ac.in	919830524860
55	CyberThon	Pratip Chakraborty	chakrabortyrimi857@gmail.com	917059123485
56	FACTOR	Sikta Mistry	sikta.mistry@gmail.com	917595972030
57	Ode-To-Code	Md Hasanujjaman Hossain	mdhjh786@gmail.com	919330801309
58	campuspace	Samadrit Das	tsama209@gmail.com	917980372546
59	626373-UGCD3433	Arijit Dasgupta	arijit11d@gmail.com	917890000210
60	Machine Learners	Samaresh Maiti	samaresh.maiti.cse24@heritageit.edu.in	919733199151
61	Mercurius	Pradipto Saha	pradiptosaha719@gmail.com	918334830331
62	SWAP	Aitijhya Saha	sahaaitijhya03@gmail.com	919477768115



63	Hack-Mania	ANKIT ANIKET	ankitaniket3@gmail.com	917004126609
64	626373-U078QI80	ANKAN DUTTA	ankandutta1010@gmail.com	917001016520
65	COOL BITS	Kushal Das	kushaldas149@gmail.com	919804482503
66	626373-US4C2D47	Sambit Sarkar	sambit2003sarkar@gmail.com	918902527649
67	Tech Giants	Ritam Chatterjee	ritamchatterjee108@gmail.com	919330539615
68	Ideatrix	Deepita Pradhan	deepitapradhan333@gmail.com	918240601145
69	626373-UV7S8073	Parthib Banerjee	parthibbanerjee01@gmail.com	919883545392
70	626373-UZS41E50	Ashutosh Jha	ashdude1401@gmail.com	918955128564
71	FUTURISTIC-Us	Preetha Sengupta	itspreetha0904@gmail.com	919875598424

Accepted list of Teams in SBH-Junior

SL no	Team Name	Team Leader's Name	Team Leader's Email	Team Leader's Phone
1	626373-U2G9KD56	Rajarshi Dhara	rajarshindhara@gmail.com	918910451185
2	626373-UQ5V4B99	Swastik Bandyopadhyay	swastikb06@gmail.com	919903326738
3	Bosco Bytes	Ayush Abhinandan Choudhury	Ayushabhinandanchoudhury@gmail.com	919038801519
4	GenZ Geeks	Piya Ghosh	7516@shrishikshayatanschool.com	919674031994
5	Hackminors	Purbayon Sarkar	purbayon2008@gmail.com	919874601112
6	KV No.1 Saltlake Curious Squad	Arvind Kumar Jha	mobid9021@gmail.com	919021932108
7	Late Night Coders	Soham Mukherjee	iamsoham2011@gmail.com	919432495972
8	Sears	Kaustav Nath	kaustav423@gmail.com	919123007731
9	Segmentation Fault	Shanu Sarkar	shanusarkarind@gmail.com	919875602348
10	Sentry Vision	Partha Sarathi	codeburnerprogramming@gmail.com	916289652321
11	SPHS-Dev-Lab	Dron Bhattacharya	dronbhattacharya20@gmail.com	919064501610
12	SXCS Team 2	Ashmeet Lakra	ashmeetlakra2006@gmail.com	919432859764
13	XCODE-GAME	Garvit Maheshwari	garvitmaheshwari2021@gmail.com	916290776468
14	626373-U467DFA8	Divyansh Thakur	thakurdivyansh333@gmail.com	917044056313
15	626373-US8817ZL	TRIJAL SRIMAL	trijalsrimal2006@gmail.com	918617290094
16	ADS_KV_Saltlake1	Angshul Saha	angshulsaha123@gmail.com	917044638399
17	AnubhavSarkar23	ANUBHAV SARKAR	sarkaranubhav.23@gmail.com	917595921224
18	BYTE HOGS	SUMITRO SARKAR	ssumitro309@gmail.com	919330982970
19	Coding Wizards	Mainak Chakraborty	exoticcoder123@gmail.com	917003676948
20	FUTURE FORESIGHTERS	Soumyadeep Das	codingrisk0198@gmail.com	919073038376
21	La Martiniere for Boys	Aakarsh Garg	agarg6ag@gmail.com	919007270448
22	NDPMB-24	Lalan Kumar	arkadyuti.dhar@gmail.com	919142644653
23	Phoneix	Pobitra Kundu	pobitrakundu345@gmail.com	917003747511
24	RKMVNDP HACKATHON	Asmit Karmakar	asmit36362@gmail.com	919153794751



25	Sneha and team	Sneha Maity	maitysneha007@gmail.com	918902298776
26	Wheels of Future	Aditya Mangalam	adityamgupta.pkt@agcschools.edu.in	916289258889

Statistics of Entries Based on Themes & Problem Statements

Sl. No.	List of Problem Statements (SBH2023)	Title of the Problem Statements	Themes	Senior		Junior	
				Submitted Ideas	Selected Ideas	Submitted Ideas	Selected Ideas
1	SBHRCCIIT001 -RCCIIT-Hybrid	Create a smart farming system to increase agricultural yields and decrease waste.	Agriculture , Foodtech and Rural Development	5	1	1	0
2	SBHRCCIIT002 -RCCIIT-Hybrid	Create a smart transportation network to ease traffic and boost performance.	Intelligent Transportation and logistics	3	1	4	2
3	SBHRCCIIT003 -RCCIIT-Hybrid	Enhance rural Bengal's access to high-quality medical care.	Biotech and healthcare	6	3	0	0
4	SBHRCCIIT004 -RCCIIT-Hybrid	Detecting and monitoring the effect of pesticides in agriculture.	Smart Automation	1	1	0	0
5	SBHRCCIIT005 -Novacle Technologies-Software	How can a system be built to clean the actual information from the unwanted in digital platforms that are involved in real-time decision making.	Artificial Intelligence	1	0	1	0
6	SBHRCCIIT006 -Novacle Technologies-Software	With the digital transformation personal data has become extremely vulnerable and requires 360 degree protection to individuals.	Artificial Intelligence	1	1	2	1
7	SBHRCCIIT007 -Novacle Technologies-Hybrid	Incubation centres are not well equipped to host next generation entrepreneurs, yet.	Smart Education	2	1	1	1
8	SBHRCCIIT008 -WebSofttechs-Software	AI Tool for generating an eye catching website design using voice and by analysing answers	Smart Automation	0	0	0	0



9	SBHRCCIIT009 -WebSofttechs- Hybrid	Create a smart human-less Medicine Vending machine (All Time Medicine)	Smart Automation / Biotech and healthcare	2	2	0	0
10	SBHRCCIIT010 -WebSofttechs- Software	Auto generate sign language interpretation from online training videos for aphasic people.	Smart Education	2	2	0	0
11	SBHRCCIIT011 -WebSofttechs- Hybrid	Indoor GPS System for real time tracking of inventory.	Intelligent Transportation and logistics	2	2	1	1
12	SBHRCCIIT012 -NextMedIT- Software	AI based health monitoring system.	Biotech and healthcare	2	0	2	1
13	SBHRCCIIT013 -NextMedIT- Hybrid	IoT based potholes tracking.	Smart management, IoT and AI	5	4	1	1
14	SBHRCCIIT014 -Simpheal Informatics Private limited- Software	Identify the users from their pre-information.	Biotech and healthcare	1	1	0	0
15	SBHRCCIIT015 -Ashtik Softech (P) Limited- Software	The Class Timetabling Problem	Smart Automation	1	0	2	1
16	SBHRCCIIT016 -Entiovi Technologies- Software	Accurate and efficient way of estimating the expected time of arrival (ETA) for different modes of city transport.	Intelligent Transport & AI/ML	2	1	0	0
17	SBHRCCIIT017 -Entiovi Technologies- Software	Hyper local pollution prediction	Environment Tech & AI/ML	1	0	0	0
18	SBHRCCIIT018 -Tectes Technologies Private Limited- Software	Cheque Book Leaflet Data Extraction	AI/ML	2	1	0	0
19	SBHRCCIIT019 -Tectes Technologies Private Limited- Software	Passenger Volume analysis and footfall prediction for 4th of July	AI/ML	2	1	1	0
20	SBHRCCIIT020 -SysCentric Technologies- Software	To create interactive images(sensors) in a Mobile app (one male and one female) in both	HealthTech	0	0	0	0



		Android and in iOS (Hybrid App)					
21	SBHRCCIIT021 -CodeData Advanced Analytics Solutions Pvt. Ltd-Hybrid	A Novel Solution Is Required To Be Developed To Monitor The Performance And To Predict The Preventive And Corrective Maintenance Of The Industrial Machines Using Iot Sensor.	IoT	2	1	1	0
22	SBHRCCIIT022 -Peers Symantech-Software	Recording periodic Fluid Intake and Output for Critically ill patients in the ICU and create a graph for the clinical observation.	Biotech and healthcare	0	0	1	1
23	SBHRCCIIT023 -Peers Symantech-Software	Recording the visitors details with his photograph, when he enters an organization premise. Use face recognition techniques to identify the visitor on his repeat visit.	IoT	7	3	4	2
24	SBHRCCIIT024 -Cyber-Physical Systems Co-Software	How do we identify heritage buildings and monuments using deep learning and other AI techniques.	AI/ML	2	1	1	0
25	SBHRCCIIT025 -Cyber-Physical Systems Co-Software	How to integrate annual academic and public exam calendars for bengal colleges/univ?	Artificial Intelligence/ Smart Education	1	1	1	0
26	SBHRCCIIT026 -Cyber-Physical Systems Co-Hybrid	Facial or visual analytics to detect mental stress or emotion	AI/ML and Smart Automation	2	2	2	1
27	SBHRCCIIT027 -Cyber-Physical Systems Co-Hybrid	Algorithmic solution to help public finding ev charging infra in a city	IoT and AI/ML	1	0	0	0
28	SBHRCCIIT028 -Cyber-Physical Systems Co-Software	How to maintain cyber hygiene or screen time for children? Method to find digital detox.	Cybersecurity	1	1	0	0
29	SBHRCCIIT029 -Cyber-Physical Systems Co-Hybrid	How to track, manage, reuse food wastage?	Agriculture , Foodtech and Rural Development	3	1	0	0
30	SBHRCCIIT030	IoT based supply chain	IoT	0	0	0	0



	-CDAC-Hybrid	management system					
31	SBHRCCIIT031 -CDAC- Software	AI based Chatbot for registering cyber-crime cases	Artificial Intelligence	6	4	0	0
32	SBHRCCIIT032 - virtualinfocom- Software	Create a solution for OTP fraud via calling and sending msg to victims - your electric connection will be cut	Artificial Intelligence	0	0	0	0
33	SBHRCCIIT033 - virtualinfocom- Hybrid	AR application to see growth of any plant and detect and understand plant health in AR	Artificial Intelligence	0	0	0	0
34	SBHRCCIIT034 -Fin Tech- Software	AI to help improve customer experience in the capital market domain	Artificial Intelligence	0	0	0	0
35	SBHRCCIIT035 -Accenture- Software	To build more inclusive society to build an app for Pet Parents which can cater to all needs of Pets including when Pet Parents travel	Artificial Intelligence	2	1	0	0
36	SBHRCCIIT036 -ISOAH Data Securities Pvt.Ltd-Hybrid	Data governance Tool to enforce upcoming Data protection and Privacy Law.	Artificial Intelligence	0	0	0	0
37	SBHRCCIITXXX -Hybrid	Open innovative ideas for hackathon are accepted	Open Innovation	26	17	9	7
38	SBHRCCIITXXX -Software			22	17	10	8
	Total Idea :			116	71	45	27
	Total-Software based Idea:			56	35	25	13
	Total-Hybrid based Idea:			60	36	20	14



Inauguration Ceremony

The Smart Bengal Hackathon (SBH)-2023, inaugurated on 11th April at Institute Auditorium, RCCIIT old Campus. The inauguration ceremony started around 11:00 AM with a warm welcome to the **Chief Guest, Mr. Babul Suprio**, Minister-in-Charge, Govt. of West Bengal and other dignitaries of the program on the dais—**Mr. Jiban Saha**, Local Municipality Councillor; **Mr. Pranabesh Das**, Chairman BOG, RCCIIT & Ex. DTE, Govt. of WB; **Prof. Amlan Chakrabarti**, Chairman BOG, RCCIIT (Non-AICTE) & Director, AKCSIT, C.U; **Mr. Iydeep Banerjee**, Global CoC, Main frame Modernization Service, IBM Consulting, Kolkata; **Prof. Aloknath De**, Adjunct Professor, IISC, Bangalore & Ex. Corporate Vice President of Samsung Electronics, Bangalore.

Mr. Pranabesh Das, Chairman BOG, RCCIIT felicitated Mr. Babul Suprio with a flower bouquet and Uttorio. Successively other dignitaries also felicitated with a flower bouquet and Uttorio. The occasion was hosted by lighting lamp on the dais by the honourable MIC, Mr. Babul Suprio, followed by a prayer to goddess Saraswati. Other dignitaries are also joined for the lighting lamp program.



SBH Inauguration: dignitaries on the dais



Glimpse of lighting lamp by Mr. Babul Suprio, MIC, Govt. of WB

At first, **Prof. Alok Kole**, Convenor, SBH has delivered welcome speech to the audience addressing the ceremony. He welcomes all the participants, dignitaries on the dais, invited jury members, industry representatives and other faculty and student members present in the auditorium. He described about the SBH-2023, its outcomes and future aspects. He proudly mentioned that an overwhelming response around 500 + idea submission received against SBH themes and problem statements. After two stages of scrutiny 71 Teams from SBH senior category and 26 teams from SBH junior category are selected for the idea presentation in the Grand final round. He addressed the efforts made by all the organizing committee members.



Welcome address by Convenor, SBH-2023, Prof. Alok Kole

After that **Mr. Pranabesh Das**, Chairman BOG, RCCIIT gives inauguration talk. He expressed excitement over the presence of honourable MIC, Mr Babul Suprio, for the inauguration of this event. He thanked all participants for their participation and hard work. He wished for the success of the event and congratulated the whole organizing team for such a value-adding event.



Inaugural talk by Mr. Pranabesh Das, Chairman BOG, RCCIIT

Then **Prof. Amlan Chakrabarti**, Chairman BOG, RCCIIT (Non-AICTE) talked about the objective of the event. He mentioned that SBH provided a great platform for the students who can contribute to the nation-building. He also expressed that how the domains of the Hackathon have great potential in the society. He concluded by thanking all the dignitaries and invited industry executives for extending their support in this event.



Inaugural talk by Prof. Amlan Chakrabarti, Chairman BOG, RCCIIT (Non-AICTE)

Next our **MIC, Mr. Babul Suprio** has been requested for inauguration talk. At first he mentioned that RCCIIT is one of the premier and oldest engineering institute in West Bengal and producing engineering students with strong knowledge and base. He expressed sincere thanks to RCCIIT and teams of SBH-2023 for inviting him in this occasion. He encouraged the institute for organizing more such events for the inherent talent of the youth especially for the school students inculcating innovative ideas. He stated that our country need adequate no of cyber security experts within few years and through this type of event it is possible to discover such type of innovative experts. He also sang a melodious song at the end of his speech and the whole auditorium feels excitement with big claps. He conveyed his best wishes for the success of the program.



Nice moment of an Inauguration talk by Mr. Babul Suprio, MIC, Govt. of WB

At the end, **Prof. Anirban Mukherjee**, Principal (o), RCCIIT, greeted vote of thanks to the guests. He expressed sincere gratitude and thanks to Chief guests Mr. Babul Suprio for gracing the ceremony by his solemn presence. He also expressed sincere thanks to all the dignitaries on the dais and other invited members form the industry. He emphasized the major financial support of the Govt of West Bengal in this event. He expressed heartfelt thanks to all the companies and start-ups that have given problem statements and also offered financial and technical supports for organizing such a great event. He also conveyed his sincere thanks and gratitude to all the respected jury members involved in evaluation process. He concluded by conveying his best wishes and congratulation to the faculty members as well as the students and the whole SBH team who are directly and indirectly involved for organization of this event.



Vote of thanks by Prof. Anirban Mukherjee, Principal (o), RCCIIT



Group Photos of the SBH organizing teams with Mr. Babul Suprio



Event Details

Day-1(11th April 2023): SBH-Junior

The Day-1 was the event for SBH-junior teams. The event started on that day around 8:00 AM. The participating teams from different schools are reached in RCCIIT campus one by one and after physical registration they are escorted by the student and faculty volunteers and assigned in the event table. The hardware and hybrid category teams are assigned in the side room of the institute Auditorium, old campus and the software category teams are allotted in 02 Computer labs in new campus of the institute. All the participants teams were asked to begin their submitted projects. In each event room 01 faculty and 01 Lab Assistant allotted for supervising all activities. After successful completion of the inauguration ceremony, **Mr. Babul Suprio** honourable MIC, WB visited event rooms and interacted with the participants and seen their innovative models project. All the teams were highly enthusiastic towards display and presentation of their skills and executing projects as perfectly as possible.



Day-1: Participants in Event Tables in the side room of the Auditorium



The Interaction of MIC, Mr. Babul Suprio with the participants



Day-1: Participants in Event Tables in the Computer Laboratory (New campus)

On **11th April 2023**, the 1st round evaluation started around 11:30 AM by the SBH jury members. In first day there are 05 Jury members from different reputed industry and academic institution. They are allotted according to their domain and expertise for the hybrid category and software category teams. Jury members started interaction with each team one by one according to the prescribed order and 1st round of evaluation completed before the lunch break. The expert pointed out certain pros and cons of each project and asked them to improve further.





Day-1: Interaction of the Jury Members with the Teams

After the lunch break 2nd & final round of evaluation started by the jury members around 2:30 PM. The final interactions held between the experts and the team about the progress of their work. All the teams described their progress and final expected outcome. The evaluation for all the teams had completed around 5:30 PM. The jury members submitted their evaluation sheet to the organizing committee and after compilation of the points of all the 05 judge final results for the SBH-Junior declared. One of the jury members, **Dr. Debasish de, Prof. MAKAUT** had been requested to declare the result in the institute auditorium. Besides 1st, 2nd and 3rd prize winners, first 10 distinction teams also declared. The certificates for the 1st, 2nd and 3rd prize winners, all participation certificates and the certificate of distinctions are handed over to all the teams.



The moment of 1st day result declaration of SBH-Junior



Prof. (Dr.) Debasish De handed over certificates to the participants

Day-2(12th April, 2023): SBH-Senior

On **12th April**, the event was only for the college teams. Among 71 selected teams, around 63 teams are physically attended the event. After physical registration all participating teams are escorted by the volunteer to their assigned event table. The hardware and hybrid category 22 teams are allocated in the side room of the institute Auditorium, old campus and the rest 41 software category teams are allotted in 03 Computer labs in new campus of the institute in 2nd, 3rd and 4th floor respectively. The event started around 8:30 AM. All the teams are making ready their project very enthusiastically. In the 2nd day 10 jury members are invited from reputed company and academic institutions. All judges were very senior and highly experienced and they are allocated separately for hybrid and software category depending upon their area of expertise. The first round of evaluation was started around 11:00 AM. In this round, judges were asked each team to present their idea and implementation strategy. All the teams explained their work and its practical applications to the society. Judges were pointed out important queries, pros and cons to some teams and asked them to show in the final round. The first round of Interaction of the judges with all the teams was completed before the lunch break.



2nd Day Interaction of the judges with the teams

After the lunch break final evaluation wound was started by the judges. Every team had successfully conveyed outcomes of their project and able to satisfy judges. The experts were quite impressed by the efforts of all the teams. Judges were very supportive, they also gave few noble suggestions to the teams about how they can deploy and commercialize their innovative ideas and product in the actual market. Few teams had presented amazing solution against the problem statement given by the company due to which they got opportunity for paid internship to the respective company. After efficient hours of interaction and presentation, the final round of hackathon came to end successfully. All the jury members submitted their evolution report to the organizing committee. The final results prepared after compilation of the marks of all the 10 judges. The name of the teams for 1st, 2nd and 3rd prize winners is announced in the valedictory session.



Result Declaration

Results of the Day-1 and Day-2 for SBH-Junior and SBH-Senior with other distinguished teams are enlisted serially as per obtained marks. In SBH-Junior, 02 teams, one from *Ramakrishna Mission Vidyalaya*, Narendrapur and other from *La Martiniere for Boys*, Kolkata jointly won the 1st prize. *Lions Calcutta Greater Vidya Mandir School, Kolkata* won the 2nd prize. 3rd prize also won jointly by the 02 teams, one team from *South Point High School*, Ballygunge, Kolkata and another team from *The Assembly of God Church School*, Park Street.

In Day-2 from SBH-Senior, 1st prize won by a team of *Bengal Institute of Technology (BIT)*, Kolkata (Techno India Group). 2nd prize won by *Techno India Main*, Salt Lake and a team of *Techno International*, New Town, won the 3rd prize.

List of distinguished Teams and 1st, 2nd and 3rd Prize winners: SBH Junior

Rank	Team Name	Team Leader's Name	School Name	Category
1 st	NDPMB-24	Lalan Kumar	Ramakrishna Mission Vidyalaya, Narendrapur	Hybrid
	La Martiniere for Boys	Aakarsh Garg	La Martiniere for Boys, Kolkata	Hybrid
2 nd	Coding Wizards	Mainak Chakraborty	Lions Calcutta Greater Vidya Mandir School, West Bengal	Hybrid
3 rd	Hackminors	Purbayon Sarkar	South Point High School, Ballygunge, Kolkata, West Bengal	Software
	626373-U2G9KD56	Rajarshi Dhara	The Assembly of God Church School, Park Street	Software
4 th	626373-US8817ZL	TRIJAL SRIMAL	St.Xavier's Collegiate School,Kolkata	Hybrid
5 th	Bosco Bytes	Ayush Abhinandan Choudhury	Don Bosco School, Park Circus, Kolkata, West Bengal	Software
6 th	SXCS Team 2	Ashmeet Lakra	St. Xavier's Collegiate School (SXCS), Kolkata, West Bengal	Software
7 th	FUTURE FORESIGHTERS	Soumyadeep Das	Lions Calcutta Greater Vidya Mandir School, West Bengal	Hybrid
8 th	Segmentation Fault	Shanu Sarkar	Lions Calcutta Greater Vidya Mandir School, West Bengal	Software



List of distinguished Teams and 1st, 2nd and 3rd Prize winners: SBH Senior

Rank	Team Name	Team Leader's Name	College Name	PS Number
1 st	key 2 innov@tion BIT, Kolkata	HRISHIKESH DAS	Bengal Institute of Technology (BIT), Kolkata	SBHRCCIITXXX
2 nd	FUTURISTIC-Us Techno SL, Kolkata	Preetha Sengupta	Techno India Main, Salt Lake	SBHRCCIITXXX
3 rd	Tech Giants Techno NT, Kolkata	Ritam Chatterjee	Techno International, New Town, West Bengal	SBHRCCIITXXX
4 th	626373-UGCD3433 FIEM, WB	Arijit Dasgupta	Future Institute of Engineering and Management, Kolkata	SBHRCCIITXXX
5 th	FoxHackerz RCCIIT Kolkata	Neelkalpa Majumder	RCC Institute of Information Technology (RCCIIT), Kolkata	SBHRCCIIT006
6 th	SourceX MSIT, Kolkata	Michael Gomes	Meghnad Saha Institute of Technology (MSIT), Kolkata	SBHRCCIIT028
7 th	The Kriticks Techno NT, Kolkata	Krittika Das	Techno International New Town, West Bengal	SBHRCCIIT024
8 th	626373-U506I6MV Amity University	Kaustav Das	Amity University Kolkata, West Bengal	SBHRCCIIT023
9 th	626373-U20FP573 Techno NT, Kolkata	Avigyan Chowdhury	Techno International New Town, West Bengal	SBHRCCIITXXX
10 th	Think Tank 3.0 UIT, Burdwan	Sumit Gupta	University Institute of Technology, The University of Burdwan	SBHRCCIIT015



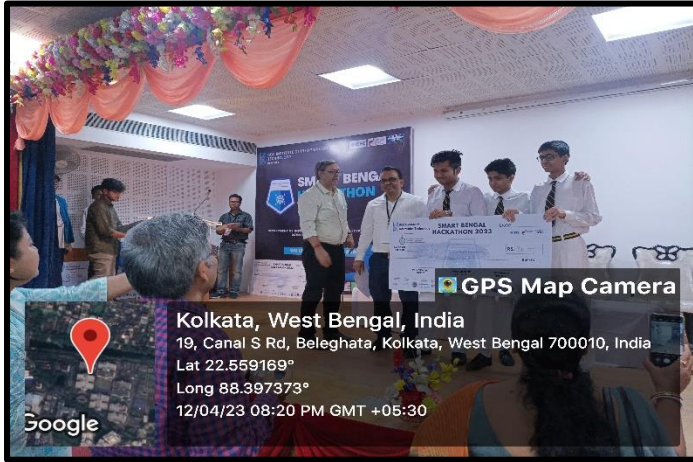
Valedictory Session

The valedictory session and prize distribution started around 6:30 PM at the end of 2nd day, 12th April, 2023. All participating students of SBH-Sr. teams and their mentors are requested to accumulate in the Institute Auditorium. The prize winners of the Day-1 from SBH-Jr. teams and their mentors are also invited to present in this session to collect their certificates and prize money. One distinguished personal **Mr. Nirupam Chaudhuri**, Director @ NASSCOM, Kolkata, was invited to hand over the prize money and certificates to the prize winners.

At first our Principal (O) sir, **Prof. Anirban Mukherjee** congratulates all the teams for their hard work, tenacity and tremendous effort for the whole day. He mentioned that there were very close completion among the teams. All the teams performed very well and have minimum difference in their marks.

After that Principal (O) sir Prof AnirbanMukherjee announced one-by one the name of the winning teams 1st, 2nd and 3rd prizes from SBH-senior category. Mr. Chaudhuri hand over the prizes and all certificates to the winners. Prof. Anirban Mukherjee and the Prof. Alok Kole jointly hand over prizes to the winning school teams of the SBH-Junior. The whole auditorium congratulates them with big claps. The session ends with sharing experience and feedbacks of few participants in Smart Bengal Hackathon (SBH-2023).





Prize winners of SBH- Junior Teams



Prize winners of SBH- Senior Teams



List of Jury Members

Sl no	Name, Designation& Organization
1	Prof. Alok Nath De Adjunct Professor, IISC, Bangalore
2	Prof. Subhasis Bhaumik, Professor, IESTS, Howrah
3	Mrs. Sonali Dhali Mustafi Joint Director, CDAC, Kolkata
4	Prof. Debashis De Professor CSE Dept, MAKAUT
5	Mr. Dibyendu Biswas Founder & CEO Websofttechs
6	Mr. Sanjoy Chatterjee Co- Founder & Director, Entiovi Technologies
7	Mr. Satadal Chakraborty, Techtes Technologies, Pvt. Ltd, Kolkata
8	Mr. Anish Chakraborty Director, Techtes Technologies, Pvt. Ltd.
9	Mr. Sandeep Sengupta Founder & Director ISOAH Data Security, CISA, Lead Auditor
10	Mr. Jibendu Mazumder Director, CTS, Kolkata
11	Mr. Diptesh Chakraborty Senior Manager, Products, NRI Fintech, Kolkata
12	Mr. Aditya Keyal Global Delivery Senior Manager, NRI Fintech, Kolkata



Feedback from Jury members

Thank you for reaching out to me regarding the feedback for the Smart Bengal Hackathon 2023. I had the pleasure of attending the event as a Jury and I must say, the participants exhibited exceptional maturity and confidence in their understanding of the problem statements. Their solutions were well-thought-out and offered valuable insights.

Overall, I have nothing but excellent feedback to provide for the hackathon. It was well-organized and proved to be a great platform for young minds to showcase their innovative ideas and problem-solving skills.

Thank you for involving me in this event.

*Mr. Sanjoy Chatterjee,
Co- Founder & Director, Entiovi Technologies*

It was well organized, a positive vibration created among the students towards development of real life products.

*Prof. Debashis De
CSE Dept , MAKAUT*

I really enjoyed the day and was amazed at the amount and quality of work the teams had put into their projects and the professionalism of their approach and presentations. My experience as hackathon judge was great and everyone who took part has much to be proud of. Each and every participant was enthusiastic about their project work which involves hard work, planning, effort, time, sacrifices, research, brainstorming and many more. Most of the projects were based on real-world problems and hence they have potential to impact society. The competition environment was excellent. You have provided all necessary support to the participants as well as the judges. You as a facilitator did a great job to engage everyone. It was a team effort and effective coordination which brought huge success for the event. The feedback is incredibly positive. I hope institute will organize more such events in the future. And last but not the least..... Congratulations to winners and kudos to all participants. It was a great experience working with RCCIIT.

Thanks and regards,

*Prof. Subhasis Bhaumik
IIST Shibpur, Howrah*

It is simply excellent. Very well-organized. Spread over different buildings, categories! Because of good planning, and promotion, students from many colleges and outside the state also participated in large numbers.

Winning results also indicate that variety mix and fairness. So many associations and msme joined for problems or jurying. This has been the first year and so much done!

With your committed drive and strong management support, I am sure it will grow further in quantity and quality in the future years.

*Prof. Aloknath De
Adjunct Professor, IISC, Bangalore*

It was a great event organized to perfection by whole team of RCC Institute of Information Technology. That too considering it inception year. The projects and innovations that the participants presented at the event were outstanding.

I am impressed by the enthusiasm and positivity among students towards entrepreneurship and



Startup culture. I am glad to be part of the event as a Jury member.

Mr. Dibyendu Biswas
Founder & CEO Websofttechs

The RCC Institute of Information Technology has organized a great event which will make students enthusiast and ready to contribute in industry and society. I am glad to be part of this event.

Sonali Dhali Mustafi
JD, CDAC, kolkata



Feedback from Participants

SBH-Team Category	Team Name	Feedback Parameters					
		How did you find the event?	What was most helpful about the event?	Is there anything else you would like to add regarding this session?	Was there anything that you did not find beneficial about the Hackathon?	What was most helpful about the Hackathon?	How would you rate the Hackathon? (5)
SBH-Senior	Code Red	Unstop website	Technical knowledge	no	Nothing	Knowledge gaining	5
SBH-Junior	GenZ Geeks	From college website	Technical knowledge	It was good	Nothing	The exposure	5
SBH-Senior	Team Hacktivators	From teacher	Technical knowledge	it was okay	Nothing	Knowledge gaining	5
SBH-Junior	Bosco Bytes	From college website	Cooperation	No	Nothing	Knowledge gaining	5
SBH-Junior	Sentry Vision	From college website	Technical knowledge	it was okay	Nothing	The exposure	4
SBH-Senior	key 2 innov@tion	Unstop website	Technical knowledge	it was okay	Nothing	Knowledge gaining	4
SBH-Junior	SPHS-Dev-Lab	From college website	Technical knowledge	No	Nothing	Knowledge gaining	5
SBH-Senior	The Kriticks	Unstop website	Cooperation	No	Nothing	Knowledge gaining	5
SBH-Junior	Late Night Coders	From teacher	Cooperation	it was okay	Nothing	The exposure	5
SBH-Senior	YOLO	Unstop website	Technical knowledge	it was okay	Nothing	Knowledge gaining	4
SBH-Senior	CyberBot	Unstop website	Technical knowledge	it was okay	Nothing	The exposure	4
SBH-Senior	ARJUNA	Unstop website	Technical knowledge	it was okay	Nothing	Knowledge gaining	4
SBH-Junior	Sears	From college website	Technical knowledge	nice	Nothing	Knowledge gaining	4



SBH-Senior	INGENIO US	From RCC Faculty	Technical knowledge	good	Nothing	Knowledge gaining	5
SBH-Senior	FoxHackerz	From college website	Cooperation	No	Nothing	Knowledge gaining	5
SBH-Senior	SourceX	Unstop website	Technical knowledge	ok	Nothing	Knowledge gaining	5
SBH-Junior	KV No.1 Saltlake Curious Squad	From RCC Faculty	Technical knowledge	no	Nothing	Knowledge gaining	5
SBH-Senior	FrountBenchEngineers	Unstop website	Cooperation	it was okay	Nothing	Knowledge gaining	5
SBH-Senior	CTE	From Faculty	Technical knowledge	it was okay	Nothing	Knowledge gaining	4
SBH-Senior	Slytherin	Unstop website	Cooperation	it was okay	Nothing	The exposure	5
SBH-Junior	Hackminors	From Faculty	Technical knowledge	it was okay	Nothing	Knowledge gaining	4
SBH-Senior	Episteme ophiles	Unstop website	Cooperation	no	Nothing	The exposure	5
SBH-Junior	Segmentation Fault	From school	Technical knowledge	no	Nothing	Knowledge gaining	4
SBH-Senior	The Artists	Unstop website	Technical knowledge	no	Nothing	The exposure	4
SBH-Senior	Technocrats	From college website	Cooperation	No	Nothing	Knowledge gaining	5
SBH-Senior	Byte tribe	Unstop website	Technical knowledge	No	Nothing	Knowledge gaining	4
SBH-Senior	TEAM DELIGHT	Unstop website	Cooperation	No	Nothing	Knowledge gaining	5



Press Coverage

Students' innovative ideas on display at Hackathon '23

TIMES NEWS NETWORK

Kolkata: RCC Institute of Information Technology — a premier engineering college in Bengal managed by the state higher education department — organised 'Smart Bengal Hackathon 2023' on Tuesday and Wednesday at their college in Beliaghata.

This was a state-wide initiative taken by the institute to provide students with a platform to acquire knowledge that will help them solve real-life problems pertaining to society and industry. The two-day event was inaugurated by the state information technology & electronics and tourism minister, Babul Supriyo,



State minister Babul Supriyo interacts with a student at Smart Bengal Hackathon 2023

in presence of other guests, including local councillor Jiban Saha. The institute hosted the event for the first time under the leadership of Institute's Innovation Council (IIC) and Student Welfare Committee (SWC). The principal of the institute, Anirban

Mukherjee, said, "The institute has been imparting education and placement in IT, electronics and allied areas for more than 24 years. Total 500 teams from different institutes across the state had registered for the event. Over 71 college teams and 26 school teams were selected to participate in the event after two rounds of evaluation."

The students presented their models and innovative ideas on various topics like block chain, cyber security, AI, robotics, disaster management, biotech & healthcare, agriculture, foodtech, renewable and sustainable energy and rural development among others.



সংবাদ প্রতিদিন

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কম্পিউটার প্রোগ্রামার ট্রেনিং

■ স্টাফ রিপোর্টার : মঙ্গলবার
বেলেঘাটা আরসিসি ইনস্টিটিউট অফ
ইনফরমেশন টেকনোলজি ক্যাম্পাসে
উদ্বোধন হল স্মার্ট বেঙ্গল হ্যাকাথন
২০২৩-এর। উদ্বোধন করেন রাজ্যের
পর্যটনমন্ত্রী বাবুল সুপ্রিয়। ছিলেন
কলকাতা বিশ্ববিদ্যালয়ের এ কে চৌধুরি
স্কুল অফ ইনফরমেশন টেকনোলজির
ডিরেক্টর অধ্যাপক অল্লান চক্রবর্তী।
৭০টি কলেজ এবং ২৫টি স্কুল থেকে
অংশগ্রহণকারীরা যোগ দিয়েছে
হ্যাকাথনে। বাবুল জানিয়েছেন,
তথ্যপ্রযুক্তি শাখায় এগিয়ে চলেছে
বাংলা। একাধিক তথ্যপ্রযুক্তি সংস্থা
বাংলায় দফতর গড়ে তুলছে। এই মেলা
ছাত্রছাত্রীদের মধ্যে লুকিয়ে থাকা
কম্পিউটার প্রোগ্রামিংয়ের জ্ঞানকে
তুলে ধরার প্ল্যাটফর্ম।



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HACKATHON

Smart Bengal Hackathon 2023 organised by RCCIIT showcased innovation & talent of students



Our Correspondent

Posted on 17 Apr 2023 14:36 PM



RCC Institute of Information Technology, the premier technological knowledge hub of West Bengal (accredited by NAAC and 4 UG programs by NBA) organized two-days Smart Bengal Hackathon on 11 th and 12 th April 2023; where apart from engineering Institutes across the state, schools were also invited to showcase their novelty for solving common people's problem. *RCCIIT*



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The program was inaugurated by honourable IT & Tourism Minister of State, Mr. Babul Supriyo, in august presence of Prof. Amlan Chakrabarti, Director, AKCSIT, C.U and Mr. Pranabesh Das (Ex-DTE, Govt of W.B). *RCCIIT*

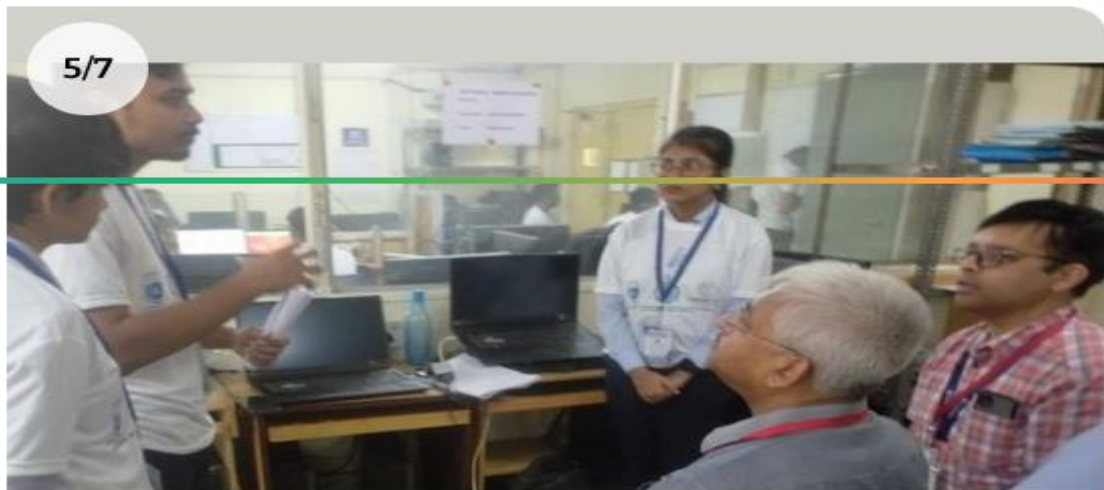
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Babul Supriyo *RCCIIT*



26 teams from various schools have participated in this mega event, and 5 teams shared the top three positions. On the next day, 71 teams from various engineering institutes demonstrated their innovativeness, where the teams were selected from two rounds of peer-review out of 500+ idea submissions. After three rounds of evaluation, finally three teams were chosen for ranking, whereas other 7 teams are provided distinction certificates. *RCCIIT*



The jury panel was constituted by renowned industry experts and academicians. The thrust areas for prototype demonstration were blockchain, cyber security, digital education, artificial intelligence, healthcare, food technology, renewable energy, rural development; where problem statements are given by reputed industries e.g., Cognizant, NRI FinTech, IBM, HCL etc along with some leading start-ups. *RCCIIT*



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CDAC offered internship to one of the top 10 teams after verifying their executions, whereas a few more teams are under consideration for further developing and enriching their solution in near future. The State Dept. of IT has actively supported this event to foster the culture of innovation and entrepreneurship and in-turn help stimulate employability. *RCCIIT*

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Minister encouraged the Institute to organize more such events in future for the benefit of the students and society and highly praised the association/partnership of the institute with leading Industries. Prizes were handed over to the future technocrats by Director of NASSCOM Mr. Nirupam Chaudhuri in the valedictory session. *RCCIIT*



SBH Selfie Zone: Sponsored by NRI FinTech