



HANSRAJ COLLEGE

University Of Delhi

NAAC Grade A++ with CGPA 3.71

NIRF Rank # 12 (Amongst Colleges)

(2023-2024)



हंसराज कॉलेज
— दिल्ली विश्वविद्यालय —

Institution's Innovation Cell (IIC) **Report**

Event Name:-_IDEATHON 2024

Date:- 30/08/2024

Event coordinator:- Mr. Suyash Kumar

Convenor, IIC:- Dr. Ambika

Institution's Innovation Council (IIC), Hansraj College, University of Delhi has organized the IDEATHON 2024. Mr. Suyash Kumar, Assistant professor, Department of Computer Science has been appointed as Coordinator for the event.

The event was started with the introduction speech of Mr. Suyash Kumar. Dr. Ambika, Convener, IIC renowned for her contributions in botany graced the occasion. In her inaugural address, Dr. Ambika emphasized the importance of innovation and collaboration in driving progress. She commended the participants for their enthusiasm and encouraged them to think outside the box during the competition. Her motivating words set a positive tone for the entire event.

This was not just an event; it's a celebration of the human spirit's boundless potential. It's a convergence of minds from diverse disciplines, all driven by a common purpose: to envision a future that pushes the boundaries of what's possible. Eleven teams of the students have registered for the event.



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Institution's Innovation Council (IIC)
Organizes

IDEATHON 2024

Date:- 30th August 2024

Time: 10:30 AM

Venue:- CS Lab 1, B-Block, 2nd Floor

Registration Link

<https://forms.gle/zNfqB3aPpi1GBRc39>

Note:- All the details are available on Registration form.

Dr. Nishant Shankhwar
Mr. Suyash Kumar
Event Coordinator

Dr. Pratibha Tiwari
Innovation Coordinator
IIC

Dr. Ambika
Convener
IIC

Prof. (Dr.) Rama
Principal, Hansraj College
President, IIC

Team 1

Name	Chatbot Ticketing System	Gender (M/F)	Email id	Mobile	Course	Year
Team Leader	Abhishek Bhalse	M	abhibhalse2288@gmail.com		Bsc (H) Computer Science	3
Team Member	Priyanshi Saini	F	priyanshisaini123hdr@gmail.com	7060920623	Bsc (H) Computer Science	3
Team Member	Preeti Arya	F	preetipriyaarya27@gmail.com	9711071537	Bsc (H) Computer Science	3
Team Member	Atul Kumar	M	atulkashyap1907@gmail.com	8860930443	Bsc (H) Computer Science	3
Team Member	Pavni Pandey	F	pavnipandey25@gmail.com		Bsc (H) Computer Science	3

Team 2

Name	Alumni association portal	Gender (M/F)	Email id	Mobile	Course	Year

Team Leader	Vikrant	M	vickymotasara@gmail.com	8107590 575	Bsc (H) Computer Science	3
Team Member	Divyanshu	M	divyanshushukla1947@gmail.com	7428879 756	Bsc (H) Computer Science	3
Team Member	Vibhor	M	heisvibhor@gmail.com	9268216 707	Bsc (H) Computer Science	3
Team Member	Ashmeet	M	ashmeet1234@gmail.com	7678357 184	Bsc (H) Computer Science	3
Team Member	Vivek	M	vivekvasu1515@gmail.com	7303124 881	Bsc (H) Computer Science	3

**Team
3**

Name: Solarwise		Gender (M/F)	Email id	Mobile	Course	Year
Team Leader	Rakshit Rabugotra	M	rakshit.rabugotra360@gmail.com	9569794 949	Bsc (H) Computer Science	3
Team Member	Deepanshu	M	deepanshu.9dd@gmail.com	9996305 179	Bsc (H) Computer Science	3
Team Member	Arjun	M	arjunsingh12a11@gmail.com	8924928 105	Bsc (H) Computer Science	3
Team Member	Subhajit	M	subhajit1742@gmail.com	9310169 239	Bsc (H) Computer Science	3
Team Member	Jasmehar	F	jasmehark22@gmail.com	8968383 324	Bsc (H) Computer Science	3
Team Member	Saumya	F		9953929 187	Bsc (H) Computer Science	3

**Team
4**

Name: Online Chatbot Based Ticketing System		Gender (M/F)	Email id	Mobile	Course	Year
Team Leader	Diksha	F	diksha.27904@gmail.com	9868089 969	Bsc (H) Computer Science	3

Team Member	Devyanshi Sitani	F	devyanshi1102@gmail.com	9811963 525	Bsc (H) Computer Science	3
Team Member	Nidhi Uikey	F	uikeynidhi29@gmail.com	9125560 260	Bsc (H) Computer Science	3
Team Member	Arya Agarwal	F	arya291204@gmail.com	9310431 013	Bsc (H) Computer Science	3
Team Member	Kushagra Singh Rohilla	M	kushagrasinghrohilla@gmail.com	8700830 567	Bsc (H) Computer Science	3
Team Member	Shreeya Mishra	F	mshreeya999@gmail.com	9811963 525	Bsc (H) Computer Science	3

Team 5

Name: Child Safety & Well Being		Gender (M/F)	Email id	Mobile	Course	Year
Team Leader	Ashish Kumar Swarnkar	M	ashish379soni@gmail.com	9125560 260	Bsc (H) Computer Science	3
Team Member	Mehak Aggarwal	F	ma9711594113@gmail.com	9310431 013	Bsc (H) Computer Science	3
Team Member	Kanak	F	kanak.k2301@gmail.com	8700830 567	Bsc (H) Computer Science	3
Team Member	Krishan Kant	M	krishankant6776@gmail.com	9069609 157	Bsc (H) Computer Science	3
Team Member	K Mahesh	M	maheshkethavath786@gmail.com	8520838 297	Bsc (H) Computer Science	3
Team Member	Sophany Phoeun	M	ravatt1323@gmail.com	8860090 149	Bsc (H) Computer Science	3

Team 6

Name: BotBuilders		Gender (M/F)	Email id	Mobile	Course	Year
Team Leader	Varun	M	vgaur2305f@gmail.com	8287782 781	Bsc (H) Computer Science	3

Team Member	Virendra Lal	M	virendralal1804@gmail.com	7668501405	Bsc (H) Computer Science	3
Team Member	Yashmit Sharma	M	yashmitxsharma@gmail.com	9973116848	Bsc (H) Computer Science	3
Team Member	Mayank Yadav	M	mayankrao576@gmail.com	7982122360	Bsc (H) Computer Science	2
Team Member	Jyoti Singh	F	jyotisingh6250@gmail.com	9764508194	Bsc (H) Computer Science	3
Team Member	nainika	F	aroranainika36@gmail.com	9501967966	Bsc (H) Co+F55:F57mputer Science	3

Team 7

Name: Parsing social meida field		Gender (M/F)	Email id	Mobile	Course	Year
Team Leader	Ankit Raj	M	ankitrajghz1133@gmail.com	9708157369	Bsc (H) Computer Science	3
Team Member	Shubhra Singh	F	shubhra192005@gmail.com	9013366732	Bsc (H) Computer Science	3
Team Member	Ritul Yadav	F	ritulyadav2005@gmail.com	8273495587	Bsc (H) Computer Science	3
Team Member	Shubhangi singh	F	shubhangisingh0913@gmail.com	9310620763	Bsc (H) Computer Science	3
Team Member	Rohit Sharma	M	-		Bsc (H) Computer Science	2
Team Member	Prince Thakur	M			Bsc (H) Computer Science	2

Team 8

Name: Sharpify		Gender (M/F)	Email id	Mobile	Course	Year
Team Leader	Keerthi KM	F	keerthikmsts@gmail.com	8930307079	Bsc (H) Computer Science	3

Team Member	Tanishk Verma	M	tanishkverma26@gmail.com	9654536057	Bsc (H) Computer Science	3
Team Member	Abhay Aggarwal	M	abhayagg0812@gmail.com	9899186663	Bsc (H) Computer Science	3
Team Member	Manav Nigam	M	anshnigam034@gmail.com	8318770033	Bsc (H) Computer Science	3
Team Member	Rushil Sood	M	soodrushil2004@gmail.com	7678306757	Bsc (H) Computer Science	3

Team 9

Name: Philconnect		Gender (M/F)	Email id	Mobile	Course	Year
Team Leader	Vineet Kumar Kankerwal	M	kankerwalvineet@gmail.com	7814650715	Bsc (H) Computer Science	3
Team Member	Aditya singh Bhadoria	M	adityabhadoria381@gmail.com	8962853825	Bsc (H) Computer Science	3
Team Member	Aryan Agarwal	M	aryanagr1212@gmail.com	8630666015	Bsc (H) Computer Science	3
Team Member	Mehak Narang	F	mehaknarang1512@gmail.com	7042864296	Bsc (H) Computer Science	2
Team Member	Thejas Suresh	M	thejassuresh05@gmail.com	9625744002	Bsc (H) Computer Science	2

Team 10

Name: TrashCam		Gender (M/F)	Email id	Mobile	Course	Year
Team Leader	Kirti Rathi	F	kirtirathi282@gmail.com	8586804202	Bsc (H) Computer Science	2
Team Member	Sakshi Dhariwal	F	dhariwalsakshi257@gmail.com	7906907947	Bsc (H) Computer Science	2
Team Member	Anishka Raghuwanshi	F	anishkaraghuwanshi1011@gmail.com	9971491849	Bsc (H) Computer Science	2

Team Member	Parth Ratra	M	parthratra11@gmail.com	9953420015	Bsc (H) Computer Science	2
Team Member	Pranay Rajvanshi	M	pranay.rajvanshi@gmail.com	8076122059	Bsc (H) Computer Science	2
Team Member	Rahul Sharma	M	sharma15705rahul@gmail.com	7838475818	Bsc (H) Computer Science	2

Team 11

Name: Stock Portfolio Managemnet optimization		Gender (M/F)	Email id	Mobile	Course	Year
Team Leader	Aditya bhardwaj	M	ADITYAFROMDU@GMAIL.COM	9540803702	Bsc (H) Computer Science	3
Team Member	Aklesh Kumar Mourya	M	Akleshmourya8810@gmail.com	8178428288	Bsc (H) Computer Science	3
Team Member	Sahil Sagar	M	sahilsagar876@gmail.com	6205192510	Bsc (H) Computer Science	3
Team Member	Satendra Singh	M	agentsatendra@gmail.com	9690243698	Bsc (H) Computer Science	3
Team Member	Gagandeep Singh	M	gdeep000bond@icloud.com	9599275248	Bsc (H) Computer Science	3
Team Member	Yuvraj Kant	M	yuvrajkant0108@gmail.com	8527205735	Bsc (H) Computer Science	3

Mr. Suyash Kumar, the skilled coordinator of IDEATHON 2024, played a pivotal role in ensuring the smooth execution of the event. His meticulous planning and organizational expertise were evident throughout the event. He welcomed participants, ensured that the schedule was followed, and facilitated the interactions between teams.

The event featured a panel of esteemed judges, comprising experts from various industries related to the themes of the competition. There were 3 judges

1. Dr. Vidhi Kanduja, Assistant Professor, Deptt. Of Computer science, Hansraj College
2. Ms. Alka Khurana, Assistant Professor, Deptt. Of Computer science, Hansraj College
3. Mr. Ravikant Prasad, Assistant Professor, Deptt. Of Physics, Hansraj College

The judges brought a wealth of experience and insights to the event, evaluating the ideas and solutions presented by the participants. We had conducted an internal presentation competition

and selected the best 4 teams for which we had assigned 20 minutes for each team to present their idea.

The highlight of the event was the idea presentations, during which each team presented their solutions to the esteemed panel of judges. The presentations showcased a diverse array of creative concepts, demonstrating the participants' dedication and hard work.

After careful deliberation, the judges selected the winners based on various criteria, including innovation, feasibility, and impact. The top teams were recognized and awarded for their outstanding ideas. The awards were presented by Dr. Ambika and Mr. Suyash Kumar, who applauded the participants' efforts.


The best 4 teams selected for IDEATHON-2024 are listed below:-

1. Idea Name:- Chatbot Ticketing System for museum
2. Idea Name- Child Safety & Well Being
3. Idea Name- TrashCam
4. Idea Name- Philconnect

IDEATHON 2024 was a resounding success, fostering an environment of innovation, collaboration, and creativity. The event provided a platform for participants to showcase their problem-solving skills and connect with like-minded individuals from various fields. The coordination by Mr. Suyash Kumar and the presence of Dr. Ambika Singh added a significant touch of professionalism and motivation to the event. As the curtains closed on IDEATHON 2024, participants left with enriched experiences, new connections, and a renewed enthusiasm for driving positive change through innovation.

Some glimpse of the events are as follows:-



 **GPS Map Camera**



Google

Delhi, Delhi, India
M6H5+MGV, Hans Raj College Marg, Hansraj College, Delhi, 110007, India
Lat 28.679067°
Long 77.208781°
30/08/24 08:55 AM GMT +05:30



ON GOING PROBLEM

Long Ticket Queue

Long queues are common, especially during peak hours, weekends, or special exhibitions, leading to frustration and impatience among visitors.

Limited Insights

Traditional systems do not easily provide real-time data on visitor numbers or preferences, making it difficult to optimize operations or marketing efforts.

Integrated system

Museums in India don't have integrated systems to handle the crowd.

Frequently Asked Questions (FAQs)

Web FAQs or chatbots, a large portion of these queries can be answered. The need for human




Delhi, Delhi, India
 Hansraj College, Block UA, Jawahar Nagar, Kamla Nagar, Delhi, 110007, India
 Lat 28.679061°
 Long 77.208136°
 30/08/24 09:06 AM GMT +05:30

GPS Map Camera



Our Interpretation

Application that can allow consumers to assess potential benefits associated with adopting solar energy as a source of electricity at their homes by giving them estimates on cost savings and energy savings.

 **GPS Map Camera**



Delhi, Delhi, India
Hansraj College, Hansraj College, Delhi, 110007, India
Lat 28.67896°
Long 77.208462°
30/08/24 09:17 AM GMT +05:30




New Delhi, Delhi, India
18, P17/18, Old, Malka Ganj, New Delhi, Delhi, 110007, India
Lat 28.674749°
Long 77.208758°
30/08/24 09:28 AM GMT +05:30

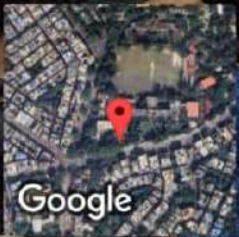
GPS Map Camera



Problem Statement

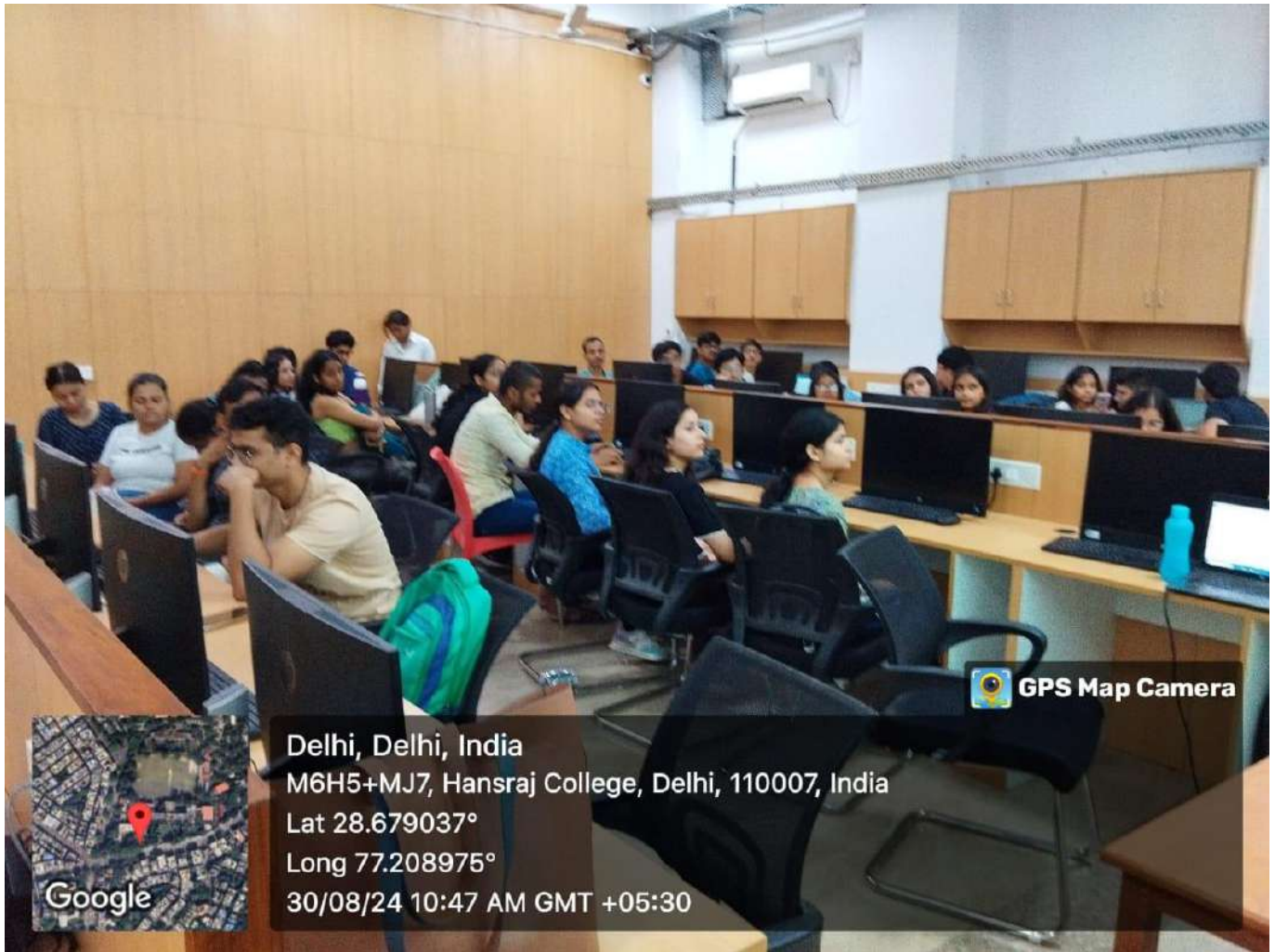
In today's volatile financial markets, identifying an investment that outperforms returns while minimizing risk is complex. There is an urgent demand for accessible, user-friendly tools that combine quantitative and traditional analysis, offer personalized advice, provide actionable insights, and enable easy implementation.

 **GPS Map Camera**

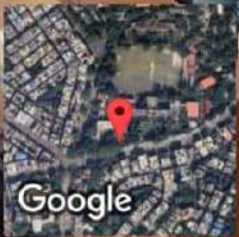


Delhi, Delhi, India
M6H5+MJ7, Hansraj College, Delhi, 110007, India
Lat 28.679038°
Long 77.208974°
30/08/24 10:47 AM GMT +05:30

Google



GPS Map Camera



Delhi, Delhi, India
M6H5+MJ7, Hansraj College, Delhi, 110007, India
Lat 28.679037°
Long 77.208975°
30/08/24 10:47 AM GMT +05:30



IDEATHON 2024

"Parsing of
social media
feeds"

 GPS Map Camera



Delhi, Delhi, India
M6H5+MJ7, Hansraj College, Delhi, 110007, India
Lat 28.67905°
Long 77.208983°
30/08/24 11:07 AM GMT +05:30


Google

PROBLEM STATEMENT

Blurry and low-quality images pose significant challenges in fields like photography and medical imaging, where visual clarity is crucial. Traditional image processing methods often fall short in restoring detail and sharpness, leading to compromised data accuracy and aesthetics.

03



 GPS Map Camera



Delhi, Delhi, India
M6H5+MJ7, Hansraj College, Delhi, 110007, India
Lat 28.679108°
Long 77.20896°
30/08/24 11:17 AM GMT +05:30

Problem Statement

Ministry of Communication (SIH1762)

- **Limited Access:** Philatelists in India often struggle to find and obtain philatelic materials (stamps, covers, etc.) released by different postal circles, as these items are usually available only locally.
- **Geographical Barriers:** Current systems are mostly regional, making it hard for collectors from one part of the country to get items from another region.
- **Lack of Awareness:** Many philatelists don't know about new stamp releases.

OBJECTIVE:

- Create a Centralized Platform: Find and Buy
- Boost Community Engagement: Connect, Share & Interact
- Simplify Transactions: National Philately Deposit Account



Delhi, Delhi, India

M6H5+MGV, Hans Raj College Marg, Hansraj College, Delhi, 110007, India

Lat 28.67901°

Long 77.208937°

30/08/24 11:28 AM GMT +05:30

 GPS Map Camera



TrashCam



Intelligent Garbage Detection and Reporting System

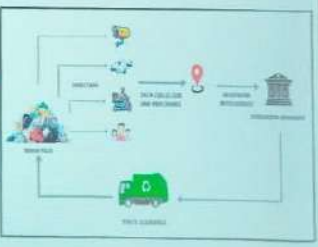
We have developed TrashCam, a cutting-edge technology powered by machine learning algorithms that detects trash piles and reports them to the appropriate authorities in real-time, streamlining the Urban Waste Management System.

Automated Waste Pile Detection and Reporting
Using computer vision and deep learning algorithms, TrashCam can automatically detect and report trash piles in real-time.

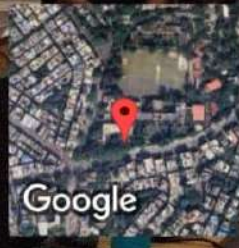
Real-time Alerts and Notifications
TrashCam sends real-time alerts and notifications to the appropriate authorities via SMS, email, and mobile apps.

Data Analytics and Reporting
TrashCam provides detailed reports and analytics on waste management trends and performance, helping authorities make data-driven decisions.

We're transforming urban living on a grand scale, elevating city cleanliness and quality of life with a groundbreaking, all-encompassing solution that automates waste collection like never before.



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Lat 28.679101°
Long 77.20895°
30/08/24 11:41 AM GMT +05:30

Child Safety & Well Being




To develop a real-time safety measure for parents to monitor their children's external interactions and ensure their well-being by analyzing their emotional states through audio data.

Subject age group : 3-13 years

Initiative :

- The prototype uses a wearable accessories microphone and listens to wearer's voice 24x7
- Acoustic features are analyzed to detect emotion and their intensity
- Emotional states during every minute is recorded and can be monitored through the mobile application interface.



Real-time audio analysis to detect this and an instant push the audio segment to alert to the parents along with an alarm.



Delhi, Delhi, India
 M6H5+MJ7, Hansraj College, Delhi, 110007, India
 Lat 28.679069°
 Long 77.20895°
 30/08/24 12:06 PM GMT +05:30

 GPS Map Camera



Attendance

IDEATION 2024

Date: 30/08/24

Attendance.

S.No.	Name	Sign
1.	Shivam Kherwar	Shivam
2.	Sanchit Jain	Sanchit
3.	Arya Agarwal	Arya
4.	Keerthi KM	Keerthi
5.	Shreya Mishra	Shreya
6.	Dnyanshi Sitani	Dnyanshi
7.	Mehak	Mehak
8.	Kanak	Kanak
9.	Ashish	Ashish
10.	Kaishan Kant	Kaishan
11.	Pd. Divyanshu Shukla	Divyanshu
12.	Vibhor Jai	Vibhor
13.	Vaibek Kumar	Vaibek
14.	Ashmeet	Ashmeet
15.	Abhishek Bhalse	Abhishek
16.	Priyanshi Vaini	Priyanshi
17.	Atul Kumar	Atul Kumar
18.	Nishi Vijay	Nishi
19.	Kushagra Singh Rohilla	Kushagra
20.	Diksha	Diksha
21.	Preeti Arya	Preeti
22.	Pavni Pandey	Pavni

23.	Aryan Agarwal	<u>Aryan</u>
24	Vineet	<u>Vineet</u>
25.	Aditya Singh Bhardwaj	<u>Aditya</u>
26.	Amita Yashmit	<u>Yashmit</u>
27	Sahil Sagar	Sahil
28	Aditya Bhardwaj	<u>Aditya</u>
29	Abhay Aggarwal	<u>Abhay</u>
30)	Rushil Dood	<u>Rushil</u>
31.)	Ankit Raj	<u>Ankit Raj</u>
32)	Shubhra Singh	<u>Shubhra</u>
33)	Ritul Yadav	<u>Ritul</u>
34)	Vikrant	<u>Vikrant</u>
35)	Varun	<u>Varun</u>
36	Mainika Arora	<u>Mainika</u>
37)	Mayank Yadav (2 nd Year)	<u>Mayank</u>
38)	Yashmit	<u>Yashmit</u>
39)	Virundra	<u>Virundra</u>
40)	Jyoti	<u>Jyoti</u>
41)	Debarshi	<u>Debarshi</u>
42)	Arjun Singh	<u>Arjun</u>
43)	Rakshit Rabgotra	<u>Rakshit</u>
44)	Sushjit Das	<u>Sushjit</u>
45)	Jasmehar Kaur	<u>Jasmehar</u>

IDEATHON 2024

Date - 30/8/2024

Attendance

S.No	Name	Sign	
1	Parth Ratra (13469)	<u>Parth</u>	Urban Eco .
2	Rahul Sharma (13436)	RM	
3	Pranay (13406)	P	
4	Sakshi Dharwal (13437)	Sakshi	
5	Kishor Rathi (13474)	Kishor	
6	Anishka Raghunani (13486)	Anishka	
7)	Prakhar Mishra (8434)	<u>Prakhar</u>	
8)	Ashmeet (8402)	Ashmeet	
9)	Shubhangi Singh (8427)	Shubhangi	