



INTERNAL SMART INDIA HACKATHON

Organized by Technical Club, BIT Patna

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

It provides an opportunity to be a part of Nation Building and get innovative solutions to your problems in cost effective ways. Talented youngsters from all over the country offer out of the box solutions to the given problems. It also gives an opportunity for national recognition and visibility for your company across all premier institutes in India and to be a part of World's biggest Innovation Movement Opportunity and work with some of the best talents of the country.

We, at Technical Club, BIT Patna are providing an opportunity to the students of our college by organizing an internal hackathon for software and hardware editions. All the teams registering for this hackathon will be provided some problem statements. Each team has to solve the given hardware or software problem statement. One team each from software and hardware editions will be shortlisted for the Smart India Hackathon based on their performance in Internal Hackathon. One team each from software and hardware will be the waiting list category.

The rules for team formation are as follows:

- All team members should be from BIT Patna. However, members from different branches are encouraged to form a team.
- Each team would mandatorily comprise of 6 members including the team leader.
- Each team must have AT LEAST ONE FEMALE TEAM MEMBER.

- As the software edition of the hackathon is digital product development competition, majority of the team members MUST be well versed with programming skills. For the hardware edition, we encourage multi-disciplinary teams – which means your team should have a good mix of Mechanical Engineers, Electronic Engineers, Product Designers and Programmers, etc.
- All these teams will be participating in the recommended Internal hackathons conducted by Technical Club.

These are the following rules for idea submission:

- The team has to select anyone problem statement from 510 problems listed on sih.gov.in/sih2022PS.
- The team has to come up with their own ideas against the problem statements and make a presentation of their idea.
- The team will submit their idea presentation. (Submission link will be provided by TC later.)
- Post Idea submission process, the ideas will be evaluated. Evaluation criteria will include novelty of the idea, complexity, clarity and details in the prescribed format, feasibility, practicability, sustainability, scale of impact, user experience and potential for future work progression.
- Based on the evaluation of our judges. The team will be shortlisted to represent our college in National Level.

For more details, the links are provided below:

- Problem Statements available on <https://sih.gov.in/sih2022PS>
- For FAQs <https://sih.gov.in/faqs#team>
- Team Registration Link: <https://bit.ly/3HBPPve>
- For queries you may contact: +91 86030 25898 , +91 77270 73565

Participants List

Total six teams for software category had participated for the internal SIH organised on. The participants' list for all six team is as follows:

Team Name: Kaizen

1. Rakhi
2. Md. Owais Ashraf
3. Shashank Shekhar
4. Ritwik Raj
5. Abhigyan Verma
6. Asadullah Alishan Usmani

Team Name: Mojo Gojo

1. Nainy Singh
2. Arpit Singh
3. Sachet Praveer
4. Yash Kumar
5. Aakash Bhardwaj
6. Sahil Sharan

Team Name: Slytherin

1. Nainy Singh
2. Arpit Singh
3. Sachet Praveer
4. Yash Kumar
5. Aakash Bhardwaj
6. Sahil Sharan

Team Name: Aztec

1. Kumar Mangalam
2. Aryan Singh
3. Yojan Gandha
4. Archit Raj
5. Navaneet Rai
6. Tanisha

Team Name: Server Monks

1. Neha Kumari
2. Robin Roy
3. Jayant Kumar
4. Anshu Kumari
5. Sonam Kumari Bharti
6. Swayam Bhaskar

Participants List

Team Name: Cotton Candy

1. Neha Kumari
2. Robin Roy
3. Jayant Kumar
4. Anshu Kumari
5. Sonam Kumari Bharti
6. Swayam Bhaskar

Following materials were used for social media promotions:

SMART INDIA HACKATHON 2022

ON CAMPUS
INTERNAL HACKATHON

Registration Link [in bio](#)
For more details visit www.sih.gov.in

Last date to register
18th February 2022

Swipe >>>

REGISTER NOW

@bitptechnical

SMART INDIA HACKATHON 2022

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Social Media Promotions and Link



SMART INDIA HACKATHON 2022

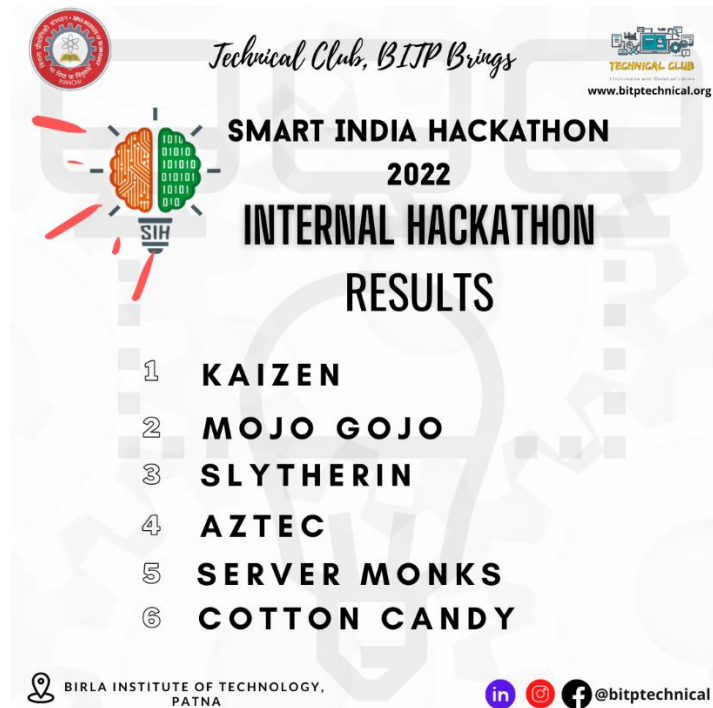
TECHNICAL CLUB
Electronics and Communication

Rules for team building

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in @bitptechnical



Technical Club, BITP Brings

TECHNICAL CLUB
Electronics and Communication
www.bitptechnical.org

SMART INDIA HACKATHON 2022 INTERNAL HACKATHON RESULTS

- 1 KAIZEN
- 2 MOJO GOJO
- 3 SLYTHERIN
- 4 AZTEC
- 5 SERVER MONKS
- 6 COTTON CANDY

BIRLA INSTITUTE OF TECHNOLOGY,
PATNA

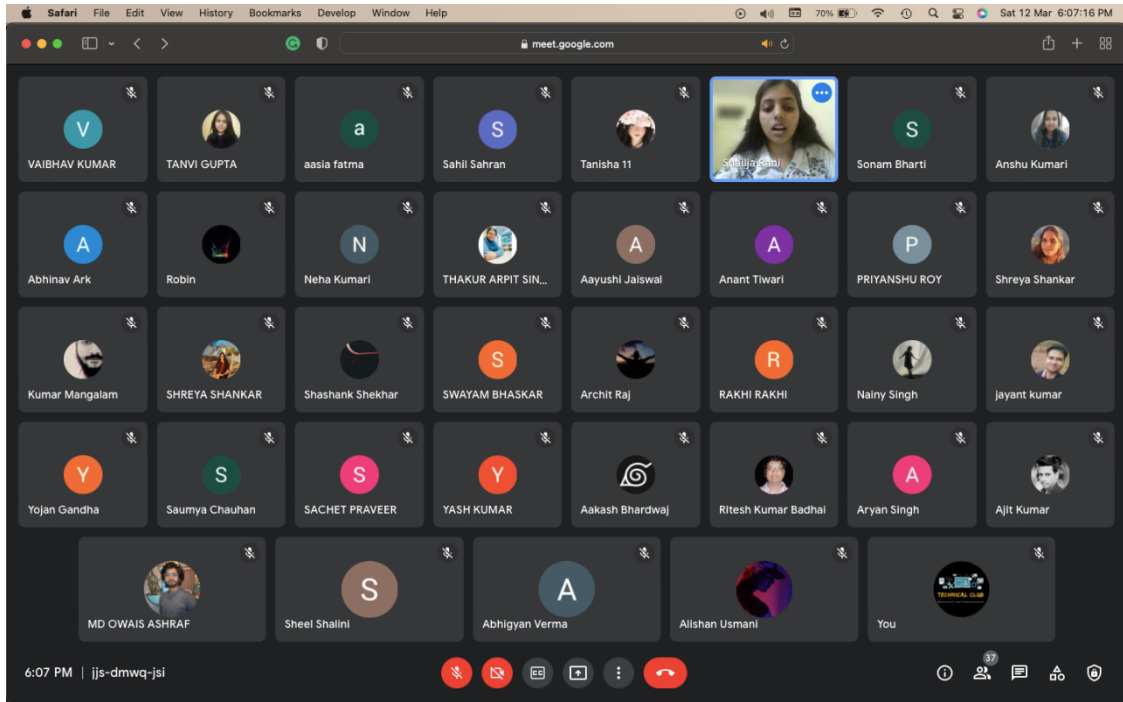
in @bitptechnical

Following Social Media accounts and website were used for event promotions:

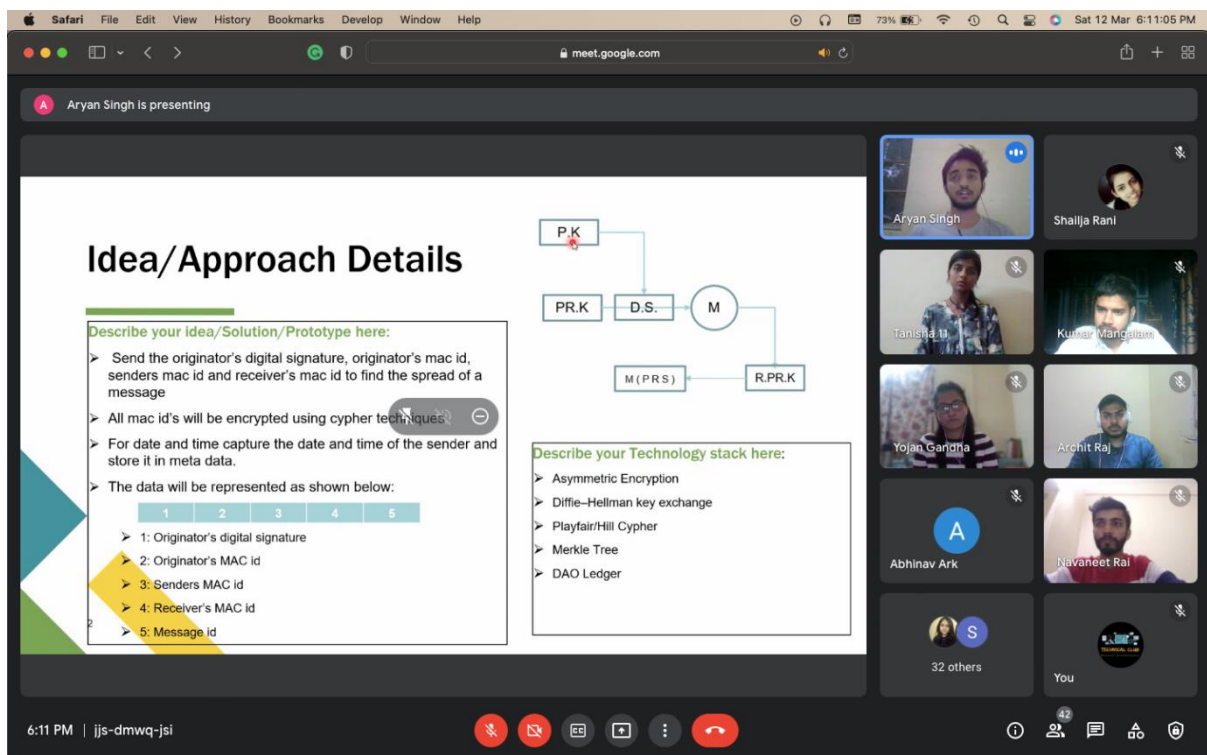
- Instagram: www.instagram.com/bitptechnical
- LinkedIn: <https://www.linkedin.com/company/bitptechnical/>
- Website: bitptechnical.org.in

Event Photos

The event was conducted on 12th March 2022 on Google Meet. The Image of the event and participants are as follows:



Team Name: Aztech



Team Cotton Candy

Robbin is presenting

IDEA DESCRIPTION

A honeypot is a computer system that is set up to act as a decoy to prevent cyber attackers and to detect, deflect, or study attempts to gain unauthorised access to information systems.

Generally a honeypot consists of data for that appears to be a legal part of the network but is actually isolated and monitored and that seems to contain information for a resource of value to attackers who are then blocked.

This is similar to the police baiting a criminal, conducting undercover surveillance and finally punishing the criminal.
Honey-pot is a security resource whose value lies in being probed, attacked or compromised.

Participants: Shailja Rani, Robbin, SWAYAM BHASKAR, Neha Kumari, Sonali Bharti, Jayanti Kumar, Anshu Kumari, Ritesh Kumar Badhai, 31 others, You.

Team Name: Kaizen

MD OWAIS ASHRAF is presenting

LIMITATION AND THE SHOWSTOPPER

Limitation:-

- As we previously highlighted the economic crisis we are in, affording cameras that can take clean accurate images that supports our Image Processing technique will be very tough as per current scenarios.

But What if something happens to the camera or the camera stops working for a while due to some technical issue, then what ?

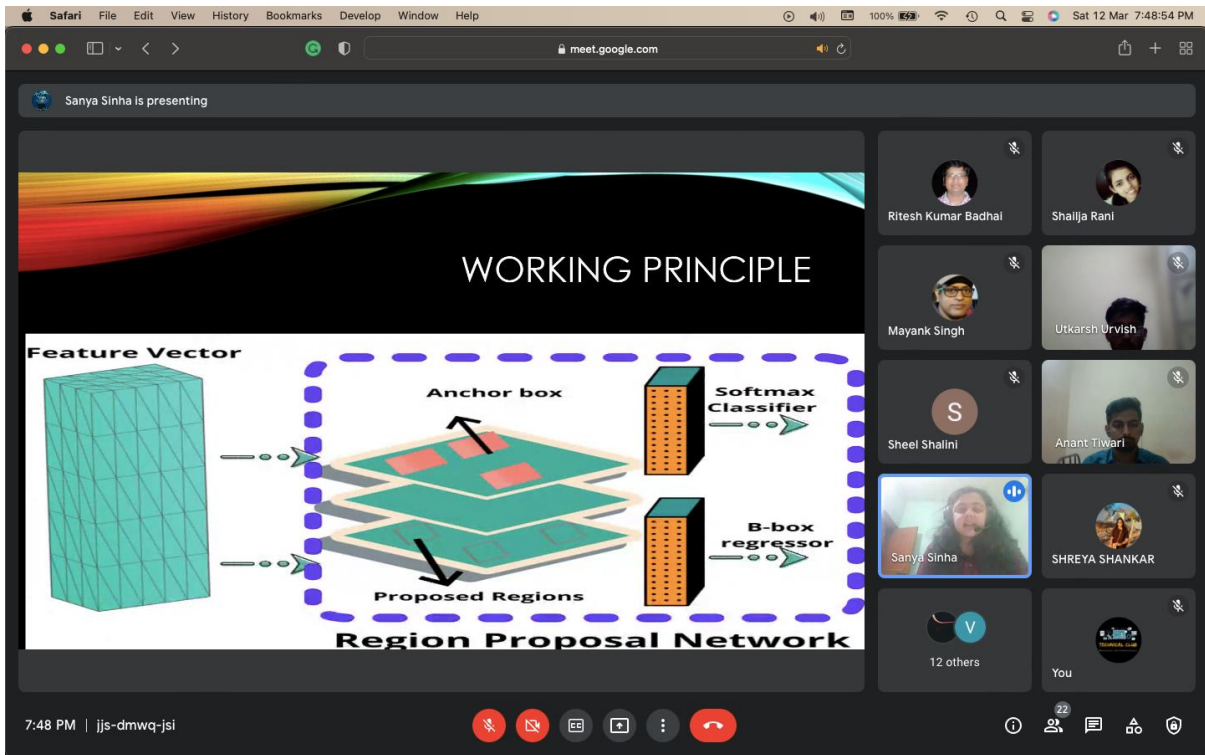
MACHINE LEARNING - THE SHOWSTOPPER

- The most consistent thing in the present world is inconsistency. And so could be with our system. Any issues to the camera will effect the whole system. But here we introduce our 'Trump Card'.
- Remember we were storing traffic density data with time stamp in csv format, we will use it know to analyze the data and the train it using SVM Machine Learning Technique.
- We will then implement the trained and tested model on the lights.
- For example, if we have data that during hours 9am-10am the traffic density going from North to South is very high on some traffic signal then we will assign more green light to that direction and the one which often has less traffic density will get less green time.
- The results will not be that impressive as compared to, using camera and Image processing but still, until the camera issue isn't resolved ML version can handle the job and it will anyways be better than the existing traffic light system.

Participants: Shailja Rani, Shaanank Shekhar, RAKHI RAKHI, RAVIK SINGH, Abhigyan Verma, MD OWAIS ASHRAF, Ritesh Kumar Badhai, Alishan Usmani, 28 others, You.

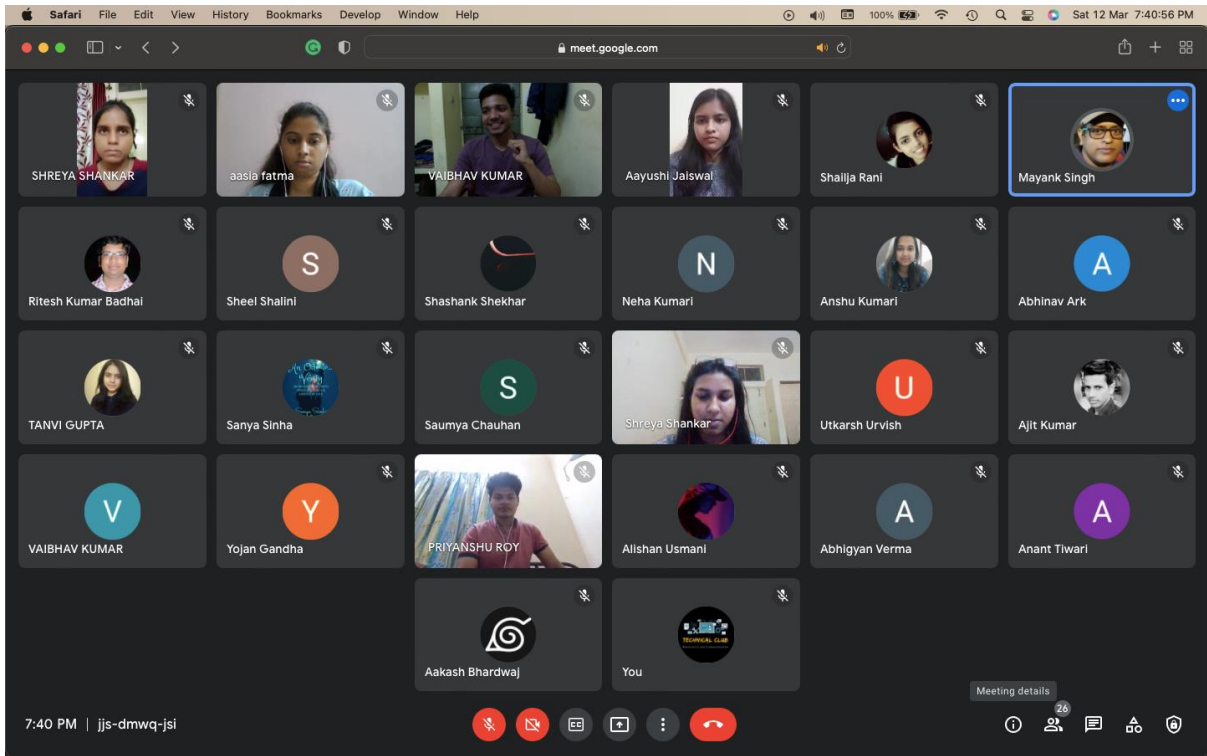
Event Photos

Team Name: Mojo Gojo

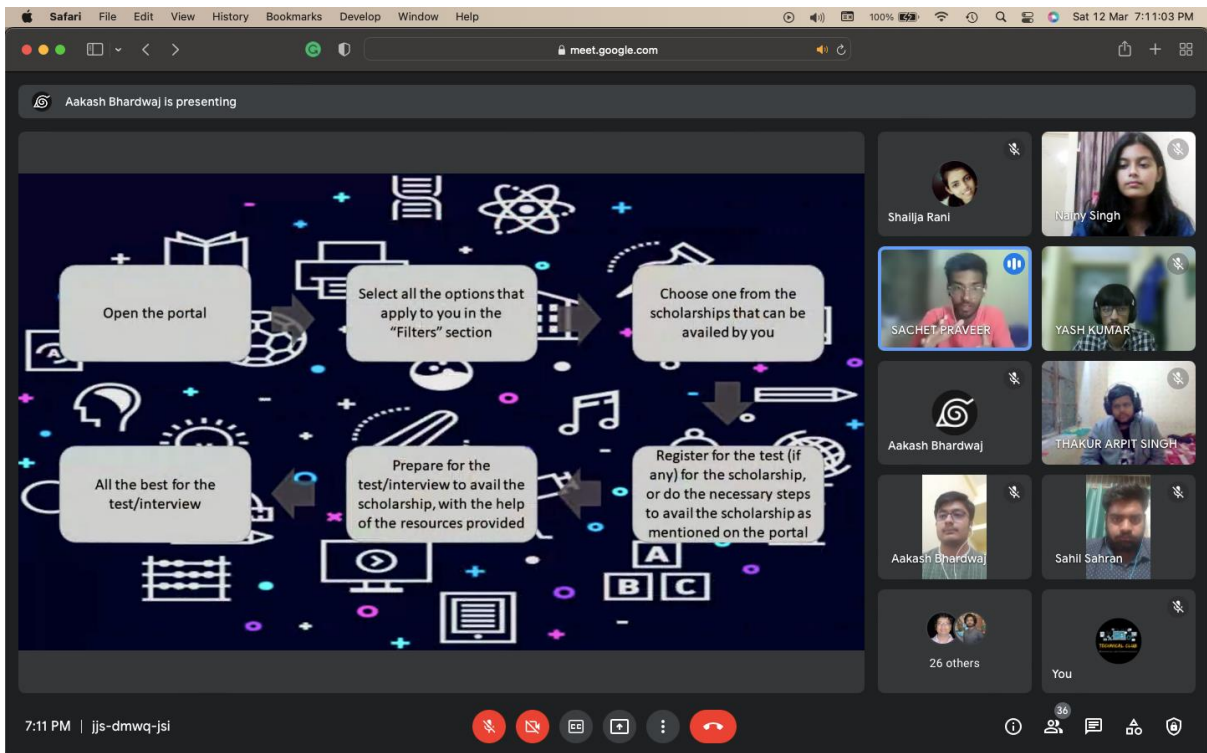


Team Name: Server Monks





Team Name: Slytherin



Judges

Jury Members



Dr. Ritesh Kumar Badhai

Assistant Professor

In charge, Electronics and Communication Engg



Dr. Mayank Singh

Assistant Professor

In charge, Electrical and Electronics Engg



Dr. Sheel Shalini

Assistant Professor

Computer Science Engg



Birla Institute of Technology

Extension Center, Patna

Department of Electronics and Communication



Internal Hackathon for SIH Results

15th March, 2022

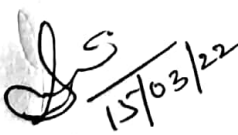
We have concluded the Internal Hackathon for SIH on 12th March, 2022. Upon combining the scores from our esteemed judges, following are the results of the event:

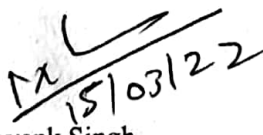
Six teams selected for software Category:


1. Kaizen
2. Mojo Gojo
3. Slytherin
4. Aztec
5. Server Monks
6. Cotton Candy

The combined score sheet is as follows:

Team Name	Judge 1 (Out of 40)	Judge 2 (Out of 40)	Judge 3 (Out of 40)	Total (Out of 120)
Kaizen	34	29	33	96
Mojo Gojo	32	31	32	95
Slytherin	29	34	31	94
Aztec	31	30	30	91
Server Monks	33	28	29	90
Cotton Candy	26	30	28	84


Dr. Sheel Shalini
Judge 1


Dr. Mayank Singh
Judge 2


Dr. R. K. Badhai
Judge 3