



and **Google Research**

Highlights  
of

# Explore Computer Science Research (CSR) 2023-2024

**Prof. Neetesh Kumar**, Assistant Professor, CSE Department, IIT Roorkee  
**Program Coordinator**

Please visit my personal webpage detailed information: <https://neeteshkumar.netlify.app/>  
Please visit Google exploreCSR @ IIT Roorkee and stay tuned: <https://explorecsriccn.github.io/>

Google

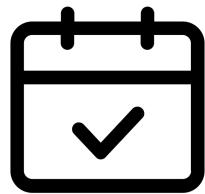
# What is exploreCSR?

Increasing student pursuit of computing research is a top priority at Google, especially for students historically marginalized and women in the field.

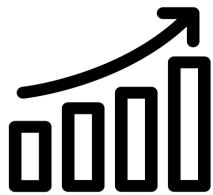
Through exploreCSR, we...



FUND



HOST



SUSTAIN

colleges and universities who...

computing research workshops *in order to...*

students in CS graduate studies and research careers



# exploreCSR objectives

## Confidence

Self-efficacy to understand, contribute and succeed in computing research

## Community

Sense of belonging among peers, mentors and faculty in computing research

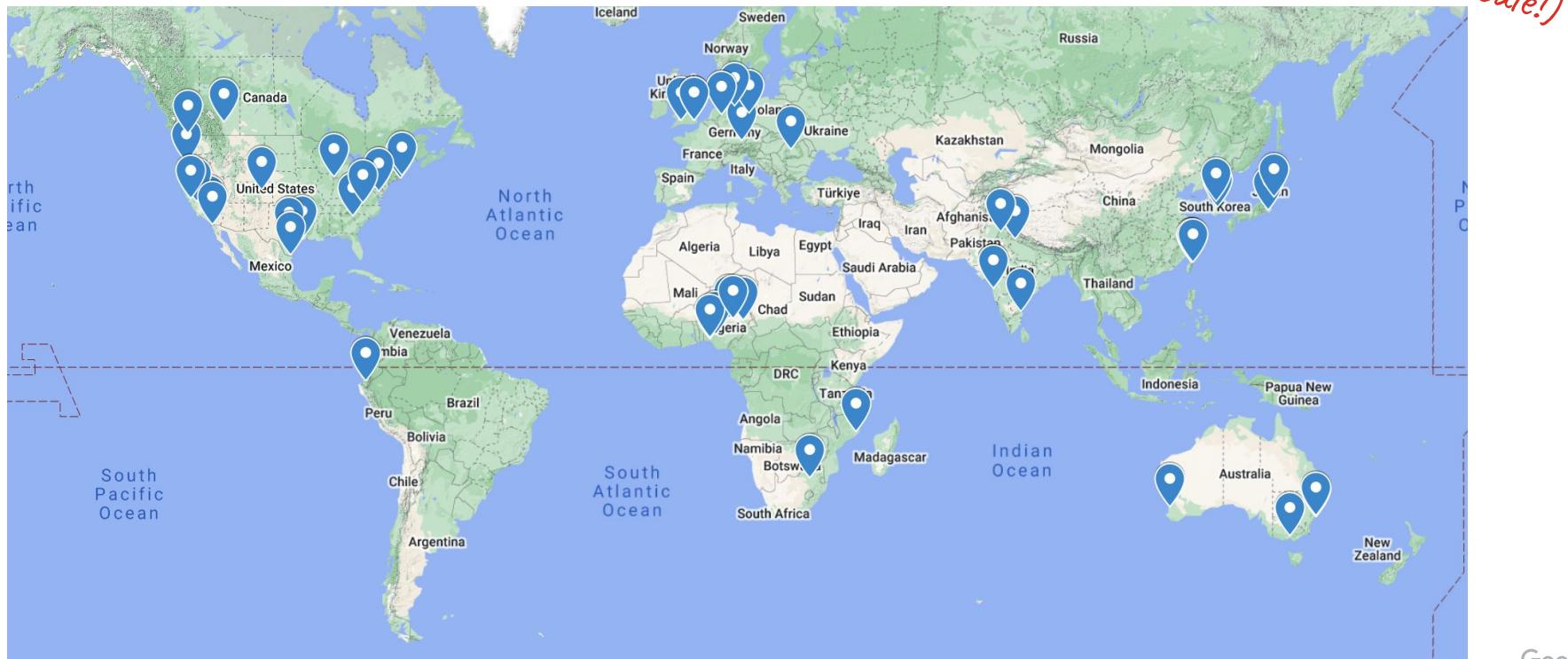
## Skills

Actionable knowledge to conduct, publish, present and pursue computing research professionally

## Motivation

Intention to pursue graduate school and research careers in computing

# 51 institutions (globally) leading the way to engage 9,800+ students in computing research



IIT Roorkee introduced Google Research Sponsored Mentorship Program for undergraduate and postgraduate students.

- Emphasis on encouraging applications from women, historically underrepresented groups, remote college students, and those from low socioeconomic backgrounds.
- Goal: Provide immersive research experience in computing fields guided by expert faculty.
- Aimed to foster confidence, inspiring participants to pursue research careers through higher studies.
- Commitment to equip participants with practical skills and instill a strong sense of belonging in the computing research community.
- A platform for the students to have a flavour of research in computing and enhance their learning.
- Focus extends beyond traditional learning, and offering professional collaborative growth opportunities.



# Faculty Mentors



**Prof. Millie Pant**  
IIT Roorkee



**Prof. Karun Rawat**  
IIT Roorkee



**Prof. Meenakshi Rawat**  
IIT Roorkee



**Prof. Devki Nandan Jha**  
Newcastle University



**Prof. Pradumn K. Pandey**  
IIT Roorkee



**Prof. Raksha Sharma**  
IIT Roorkee



**Prof. Rahul Thakur**  
IIT Roorkee



**Prof. Pravendra Singh**  
IIT Roorkee



**Prof. Neetesh Kumar**  
Program Co-ordinator  
IIT Roorkee



**Prof. Pushpa Choudhary**  
IIT Roorkee



**Prof. Bharti**  
University of Delhi



**Prof. Ranveer Singh**  
IIT Indore

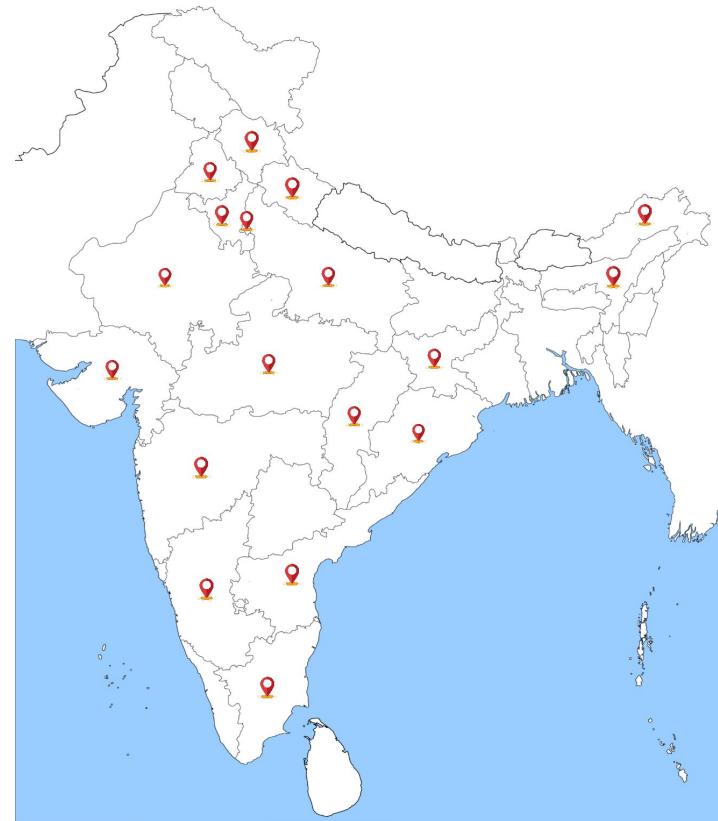
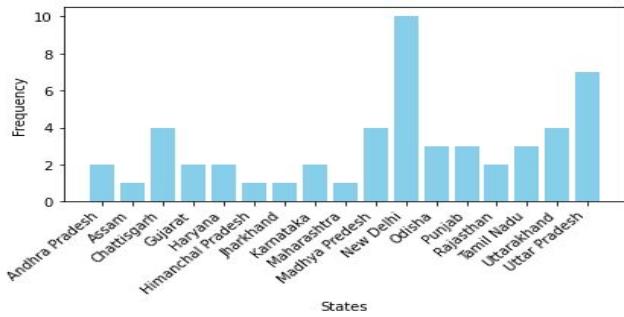
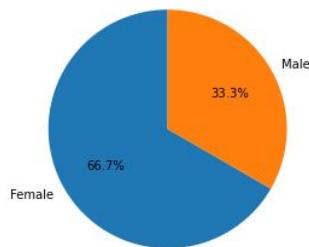


**Prof. Chandresh Kumar Maurya**  
IIT Indore

# Statistics

- We received **350+ applications** out of which **50 students** were shortlisted for the program with a special emphasis on encouraging **female students** and students from **remotely located college students**, and those from **low socioeconomic backgrounds**.

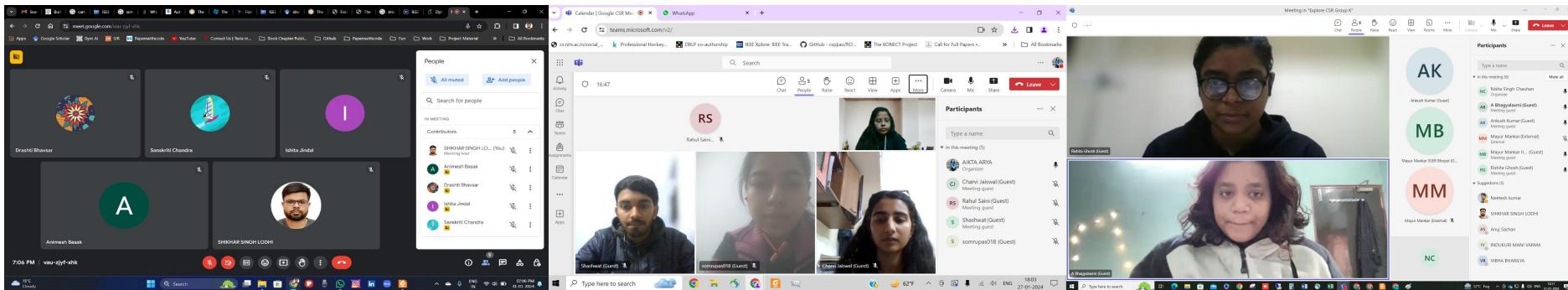
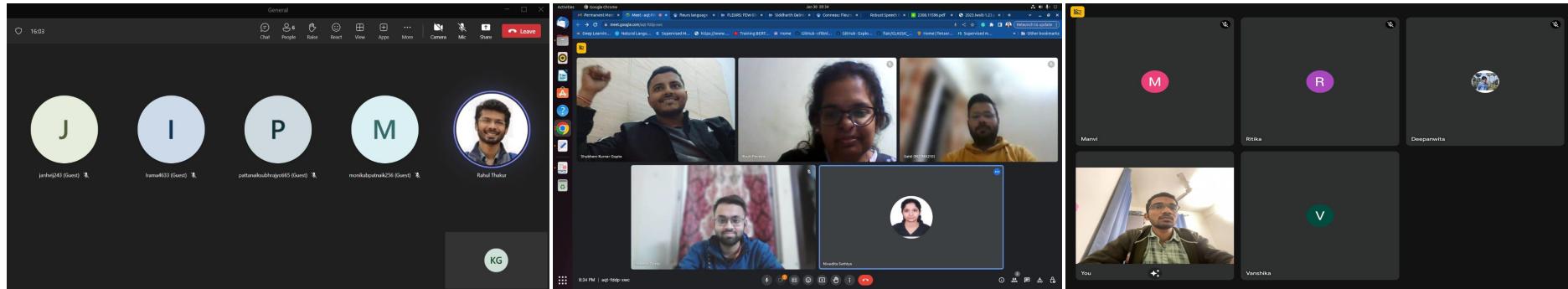
- Covered **18 States**



# Timeline



# Snaps of Online Mentor-Mentee Interaction



# The Final Chapter: Onsite Visit

## Highlights of Onsite Visit:

- **34** students from across different parts of the country are **visiting** the IIT Roorkee Campus
- **24 Female** and **10 Male** Students
- **Travel Grant** (financial assistance towards the cost of travel, food and accommodation) for all the students attending the offsite event
- Expert lectures
- Handson Workshops
- Various competitions and exciting prizes.
- And many more...

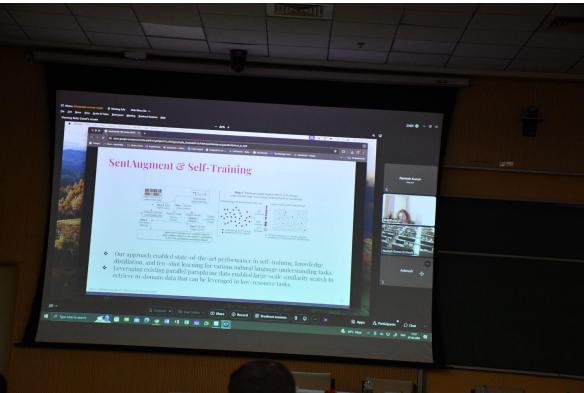
# The Final Chapter: Onsite Visit

## Day 1 Highlights:

- Inauguration Ceremony
- Expert talk by **Dr. Beliz Gunel**



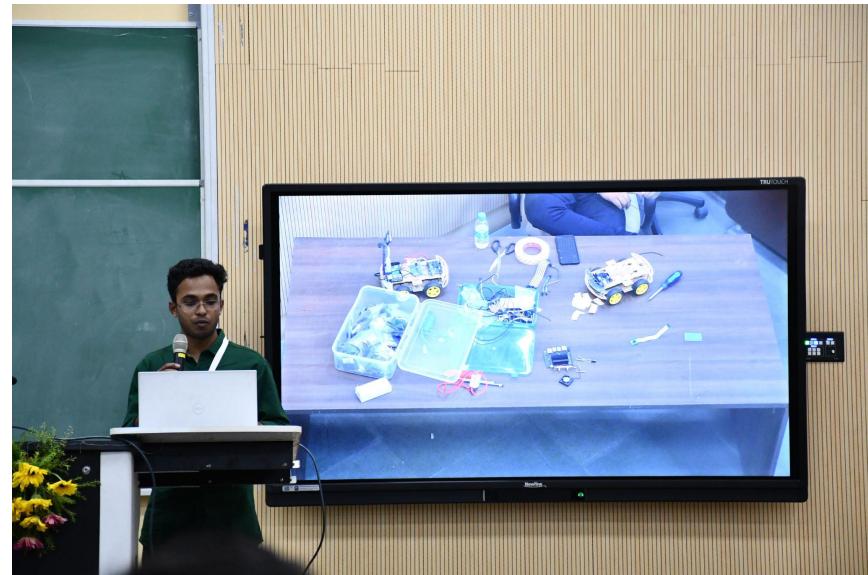
Dr. Beliz Gunel  
(Research Scientist)  
Google



# The Final Chapter: Onsite Visit

## Day 1 Highlights:

- Robotics Workshop



# The Final Chapter: Onsite Visit

## Day 2 Highlights:

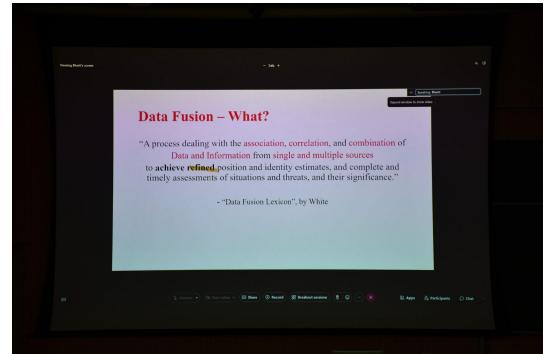
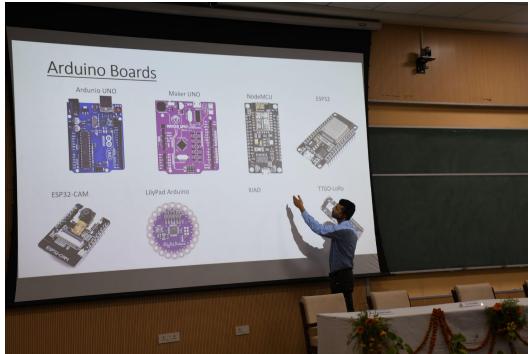
- Expert talk by **Prof. Bharti Rana**
- IoT Workshop by **Prof. Rahul Thakur**



Prof. Bharti  
(Assistant Professor)  
University of Delhi



Prof. Rahul Thakur  
(Assistant Professor)  
IIT Roorkee



# The Final Chapter: Onsite Visit

## Day 2 Highlights:

- Hackathon (Day - 2)



# The Final Chapter: Onsite Visit

## Day 3 Highlights:

- Expert talk by **Prof. Aparajita Khan**
- Expert talk by **Prof. Indu Joshi**
- Expert talk by **Dr. Anil Kumar Giri**



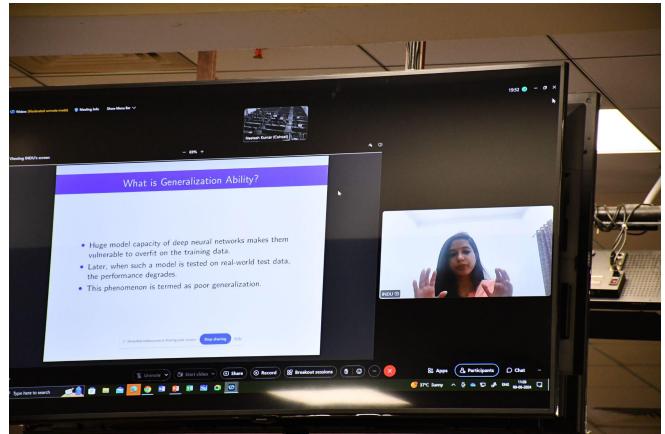
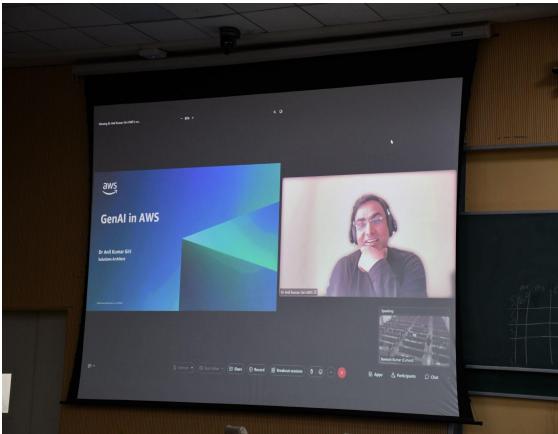
Prof. Aparajita Khan  
(Assistant Professor)  
IIT Roorkee



Prof. Indu Joshi  
(Assistant Professor)  
IIT Mandi



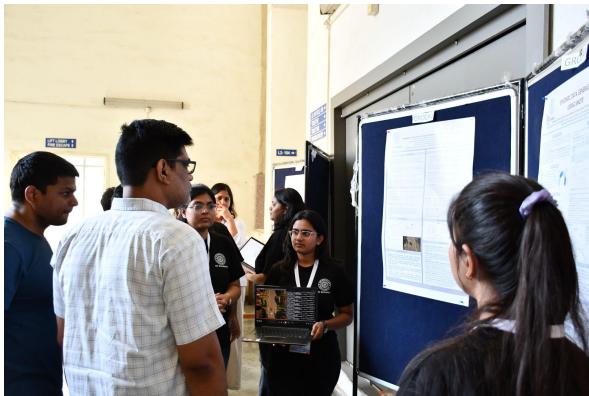
Dr. Anil Kumar Giri  
(Solution Architect ISV)  
AWS London



# The Final Chapter: Onsite Visit

## Day 3 Highlights:

- Poster Presentation and Evaluation



# The Final Chapter: Onsite Visit

## Day 3 Highlights:

- AI-based demonstration of Real World Applications



# exploreCSR Team Members & Participants



# Outcomes

**The outcomes of this program are as follows:**

- **Awareness among Students:** This program increased awareness about computer science research and its impact, highlighting how young minds can make significant contributions.
- **Academic Publications:** It encouraged students to publish their research findings in reputable journals and conferences.
- **Educational Impact:** The program inspired students to pursue higher studies, paving the way for future research endeavors.

# Outcomes

- The following students have taken admission in different programs to contribute to computer science research, which is the aim of this program.

<b>Admitted into Ph.D.</b>
Ankit Rai (IIT Roorkee)
Sanskriti Chandra (IIT Bhilai)
Ankush kumar (IIT Gandhinagar)
Sajid Javed (IIIT Delhi)
Ankush Kumar (IITGandhinagar)

<b>Admitted into M.Tech.</b>
Shashwat (IISc Bangalore)
Manvi jain ( IIT Goa)
A Bhagyalaxmi (JNU Delhi)
Abdul Rehman (IITMandi)
Shashwat ( IISc Bangalore)

# Contact

## Program related query

Student Coordinator

Anuj Sachan ([anuj\\_s@cs.iitr.ac.in](mailto:anuj_s@cs.iitr.ac.in))

Nisha Singh Chauhan ([nisha\\_sc@cs.iitr.ac.in](mailto:nisha_sc@cs.iitr.ac.in))

Email: [iccnlab@gmail.com](mailto:iccnlab@gmail.com)

For regular updates kindly visit the website (<https://explorecsrccn.github.io/>)

Thank you