

# POULOMI BHATTACHARYA

PhD in Data Science  
Indian Institute of Science Education and Research, Bhopal

Mobile: +91 8918148543  
Email: poulomi24@iiserb.ac.in

## Profession Sites

---

- LinkedIn: <https://www.linkedin.com/in/poulomi-bhattacharya-35a510229/>
- Scholar: <https://scholar.google.com/citations?user=IGVsDFIAAAAJhl=en>
- Website: <https://poulomi891.github.io/Poulomi/>
- Research Lab currently working in: <https://tbvl22.github.io/website/home.html>

## Education

---

Course	College / University	Year	CGPA/%
PhD in Data Science	IISER Bhopal	2024–Ongoing	8.50
M.Sc. Applied Mathematics	IEST	2022–2024	9.79
Undergraduate (B.Sc.)	Banaras Hindu University	2019–2022	9.46
Intermediate (+2)	Umarani Gorai Mahila Kalyan Girls' High School	2019	92.80%
High School	Umarani Gorai Mahila Kalyan Girls' High School	2017	90.57%

## Research Interests

---

Privacy and Security in AI, Image and Video Deepfake Generation and Detection

## Achievements

---

- Received InCode student travel support to attend the prestigious top-tier conference in computer vision, CVPR (2025).
- Awarded 1 Gold and 1 Silver Medal in my Master's of Sciences in Applied Mathematics from IEST Shibpur, Howrah (2024).
- Qualified for GATE with a score of 498 (2023).
- Awarded 3 Gold Medals in my Bachelor of Sciences in Mathematics from Banaras Hindu University (2022).

## Experience & Activities

---

- Summer Internship Programme, Harish Chandra Research Institute, Allahabad (Jun 2023 – Jul 2023)
- Webinar on *Mathmania to Cryptomania*
- Volunteer, Indian Control Conference 2024, IISER Bhopal
- Teaching Assistant, Computer Vision, IISER Bhopal (Aug-Dec, 2024)
- Teaching Assistant, Introduction to C Programming, IISER Bhopal (Jan-July, 2025)
- Attended ICVGIP Conference 2025, IIT Mandi
- Presented paper: *Identity in the Blood Relation: Unraveling the Complexity of Morph Detection in Kinship Biometrics*, BMVC Workshop on Privacy, Fairness, Accountability and Transparency in Computer Vision, 2025
- Teaching Assistant, Data Science in Practice, IISER Bhopal (Aug-Dec, 2025)

- Teaching Assistant, Introduction to C Programming, IISER Bhopal (Jan 2026–Present)

## Publications

---

- Bhattacharya, P., & Agarwal, A., & Ratha, N. (2026). Traces Left Behind: Deepfake Detection Under the Lens of Iterative Generation. *CVPR Workshops 2026*.
- Surendra, G., Bhattacharya, P., & Agarwal, A. (2026). Guarding Digital Identity: Attention-Guided Fusion for Detecting Forged ID Documents. *AAAI Student Abstract 2026*.
- Kumar, V., Chanda, A., Bhattacharya, P., & Agarwal, A. (2026). Q-MoFusion: A Quantum Classifier for Mosquito Species Classification. *AAAI Student Abstract 2026*.
- Bhattacharya, P., & Agarwal, A. (2026). Breaking the Deepfake Chain: Rethinking Phylogeny for Robust Detection. *EGSAI Workshop, AAAI 2026*.
- Borade, S., Bhattacharya, P., & Agarwal, A. (2026). One Fake Among Many: A Multi-Attack Dataset for Group-Photo Face Tampering Detection. *EGSAI Workshop, AAAI 2026*.
- Sinha, J., Bhattacharya, P., & Agarwal, A. (2025). Gesture Recognition for Emergencies: Dataset and Cross-Condition Analysis. *IEEE FG 2025*, pp. 1–6.
- Srivastav, S., Bhattacharya, P., Agarwal, A., & Ratha, N. (2025). Identity in the Blood Relation: Unraveling the Complexity of Morph Detection in Kinship Biometrics. *BMVC Workshop on Privacy, Fairness, Accountability and Transparency in Computer Vision*.

## Skills & Interests

---

- Programming Languages: C, Python, Mathematica
- Tools & Libraries: MATLAB, L<sup>A</sup>T<sub>E</sub>X, Microsoft Office, tensorflow, PyTorch.
- Research Interests: Deep Learning, Machine Learning, Computer Vision, Deepfakes, Cryptography, Cyber Security

## Languages

---

Bengali • English • Hindi

## Hobbies

---

Singing • Drawing • Listening to Music