



DEBASMITA KARMAKAR

STUDENT, 2ND YEAR

PROFILE

A student at COMPUTER SCIENCE AND ENGINEERING, studying in National Forensic Sciences University, specialization in cybersecurity. Enthusiastic about research work, currently working on Quantum Computing, object detection and Face Identification using Linux. Always eager to learn, innovate, and contribute to technology-driven solutions.

CONTACT

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- 📍 Agartala, Tripura, India

LANGUAGES

- English (Fluent)
- Bengali (Fluent)
- Hindi (Fluent)

HOBBIES

- PAINTING: VISARAAD (Bangiya Sangeet Parisaad)
- READING
- AMATEUR WRITER
- SWIMMING

EDUCATION

SHISHU BIHAR H.S. SCHOOL

2009 - 2024

Completed my 10th and 12th standard under CBSE

NATIONAL FORENSIC SCIENCES UNIVERSITY - TRIPURA CAMPUS

2024 - 2029

BTech MTech Computer Science and Engineering (Cybersecurity)

ACTIVITIES

Smart India Hackathon

2024

Technological Bucket: Robotics and Drone

A cost-effective logistics drone to carry 30 kg payloads over difficult terrains. Designed to support defense and emergency supply missions in remote or inaccessible regions with precision.

IBM QISKIT FALL FEST

2024

Organiser: **National Institute of Technology, Agartala**

Participated in online speaker sessions on Quantum Computing and currently working on a college project with a focus on research.

RESEARCH INTERN (ONGOING)

2025

Working under Dr. Suman Deb, Assistant Professor, NIT Agartala, on AI-based drone image analysis using Python and Linux, focusing on object detection and DeepFace in OpenCV and implementation for forensic and surveillance applications.

WORKSHOP

2024-2025

AI for Good Governance: Driving Transparency, Efficiency & Impact

Organized by: **Directorate of IT, Govt. of Tripura, NeGD, Ministry of Electronics and IT, Govt. of India**

Quantum Computing and Programming Workshop, QBronze160

Organized by: **QPoland, Fundacja Quantum AI, AI Lab at AGH**

Programming and problem solving were done using QISKIT.

TRAINING

2024

One- Day training on Data Recovery and Cyber Security in Office Automation for Engineering Officers.

Organized by: **NATIONAL FORENSIC SCIENCES UNIVERSITY- TRIPURA CAMPUS**

COLLEGE PROJECT:

TEAM: Developing a Hexacopter Drone focused on surveillance, data collection, and research, specifically for army personnel and defense applications.

SKILLS

- **C:** Intermediate
- **C++:** Intermediate
- **Python:** Intermediate
- **Operating System:** Windows, Linux (Ubuntu), SBC
- **Training Model:** YOLO for Object Detection, DEEPFACE