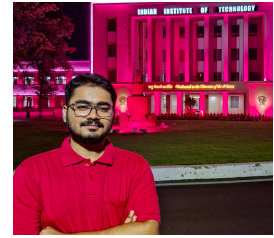# Gourab Das

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About

UGC NET JRF Qualified postgraduate student in Computer Science with research experience in Artificial Intelligence, IoT, Image Processing, and Machine Learning. Strongly inclined towards publication and academic research, with a focus on applying AI for societal advancement. Dedicated to interdisciplinary collaboration and impactful innovation.

Field of Interest

- **Machine Learning**
- **Artificial Intelligence**
- **UAV Security**

Experience

Research Internship under **Prof. Pabitra Mitra**   IIT Kharagpur
                                                                          May – July 25
- Deep Learning Based Plant Genotype Prediction from Phenotype information.

Education

M.Sc **Ramakrishna Mission Vidyamandira, CS**   2024 – Present
- **CGPA:** 9.76/10 (93.6%) (Marks-sheet ↗)

B.Sc. **University of Delhi, CS**   2020 - 2023
- **CGPA:** 9.23/10 (Marks-sheet ↗)   **Awards:** College First Rank. (Certi. ↗)

HSC **Ramakrishna Mission Vidyapith, Deoghar - CBSE**   2018 - 2020
- **Percentage:** 96.2 (Marks-sheet ↗)

SSC **Sarada Vidya Mandir, Raiganj - CBSE**   2018
- **Percentage:** 93.8 (Marks-sheet ↗)

Achievements

UGC NET Dec'24 - JRF & Assistant Professor (Scorecard ↗)   2025
- **Score:** 202 out 300.
- **Percentile:** 99.8707644.

Winner (First Position) - The Turing Show. (Perceptron, RKMVERI) (Certificate ↗)   2025
- Applied problem solving and optimization skills to win the **Coding Competition** organized by Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI).

Winner (First Position) - Codeplay. (eXabyte, St. Xaviers, Kolkata) (Certificate ↗)   2025
- Applied problem solving and optimization skills to win the **Coding Competition** organized by

St. Xavier's College (Autonomous), Kolkata.

Sanjeev Arora Memorial Prize. (ARSD COllege, DU) (Certificate ↗)   2023

- Excellent Academic performance in Graduation and College First Rank (Computer Science).

Publications

Enhanced UAV Tracking through Multi-Sensor Fusion and Extended Kalman Filtering   Dec 2024
2024 Sixth Doctoral Symposium on Intelligence Enabled Research. Pdf ↗
B Baidya, A Mondal, S Manna, *G Das*, A Santra, A Chakraborty

Projects

HeartStack: A Multi-Layered Ensemble Model for Heart Disease Prediction   2025

- Developed a four layer stacked ensemble model that integrates various classifiers to predict heart disease with high precision. Utilized ensemble learning, model stacking, and majority voting, achieving strong precision and reliability on real-world data. Achieved better results than four recent proposed methods.

Next-Gen Secure UAV: Leveraging Hyperelliptic Curves and Particle Swarm Optimization   2025

- Developed a resilient cryptographic framework integrating Hyperelliptic Curve Cryptography (HECC) with Particle Swarm Optimization (PSO) to optimize AES key management for UAV communications. Enhanced security against attacks by dynamically adjusting key length and rotation intervals.

Technologies

Languages: Python 12, C++, HTML5, CSS3, LaTeX, MATLAB.

ML and DS: Scikit-learn, Seaborn, Torch, PlantCV, FAISS, ViT.

Tools: Jupyter, Google Colab, GitHub, Photoshop 2022.

Certifications and Workshops

🔖 **Next Generation Communication Technologies Using MATLAB Tools** (Certi.) ↗   Feb 2025
Indian Institute of Information Technology Una

🔖 **Problem Solving (Intermediate)** (Certificate) ↗   Feb 2025
HackerRank

Volunteering

The International Society for Applied Computing (ISAC).   2025 - present

- Serving as a **Regular Member (Lifetime Membership)** for the ISAC.

PixElation - The Photography Society of ARSD. (Certificate ↗)   2021 - 2023

- Served as the **Public Relations Head** in PixElation, contributed to organizing Society Fest, NAAC visit, College Fest, Photo walks and Photography Sessions.

References

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