

# Ankush Dutta

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## Professional Summary

Highly passionate and dedicated Deep Learning and Machine Learning enthusiast with hands-on research experience in designing, training, and evaluating complex models. Proficient in data analysis, data storytelling, and deriving meaningful insights from data. Committed to delivering impactful results through strong problem-solving skills and a detail-oriented approach.

### Personal Details

- **Nationality:** Indian
- **DOB:** 18/06/2003
- **Languages:** English, Hindi, Bengali

### Skills

- **Programming Languages:** Python, C, Java, SQL, React, HTML, CSS, JavaScript
- **Machine Learning & Data Science:** Deep Learning, Machine Learning, Data Analysis, Data Storytelling, Hybrid Models, LSTM, GRU, YOLOv9, TensorFlow, NumPy, Pandas, Seaborn, Matplotlib
- **Tools & Technologies:** LaTeX, Git
- **Soft Skills:** Leadership, Team Collaboration, Team Building, Problem-Solving, Detail-Oriented

### Positions of Responsibility

- **Convenor,** Ureckon, UEM Kolkata May 2025 – Present
- **Secretary,** IEEE Student Branch, UEM Kolkata June 2025 – Present
- **President,** Robotics Club, UEM Kolkata June 2025 – Present
- **Treasurer,** IEEE Student Branch, UEM Kolkata June 2024 – June 2025

### Education

- **B.Tech, Computer Science Engineering (AI & ML)** Aug 2022 – Jun 2026
  - University of Engineering and Management, Kolkata CGPA: **9.26/10.0** (upto 6th sem)
- **Senior Secondary (CBSE)** 2022
  - Delhi Public School, Ruby Park, Kolkata Percentage: **84.4%**
- **Secondary (CBSE)** 2020
  - Delhi Public School, NTPC Farakka Percentage: **95.2%**

### Projects

- **Precision Forestry: Implementing YOLOv9 for Accurate Tree and Plant Detection**
  - Developed a robust tree and plant detection and identification model using **YOLOv9** for accurate flora species identification.
- **AQI-Cast: Deep Learning based approach for Air Quality Index Prediction**
  - Engineered an Air Quality Index (AQI) prediction model leveraging various **Deep Learning** algorithms including **LSTM, LSTM-BiLSTM-LSTM, GRU**, and other **hybrid models**.

### Certifications

- **Google:** Data Analytics Professional Certificate
- **IBM:** Data Science Professional Certificate
- **Deeplearning.ai** Machine Learning Specialization
- **Deeplearning.ai:** Tensorflow Developer Professional Certificate
- **Deeplearning.ai:** Deep Learning Specialization

### Achievements

- Secured Vice Chancellor's Award for overall performance in **2024**.
- Obtained **8th rank** in department for overall academic performance during academic session of 2023-2024.
- Obtained **12th rank** in department for overall academic performance during academic session of 2022-2023.

### Publications

- AQI-Cast: A Deep Learning based approach for Air Quality Index Prediction (Accepted in ICAIET 2025)
- Innovative Plant Detection Using YOLOv9: Advancing Forestry Practices (Accepted in CICBA 2025)