

Aritra Mondal

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SUMMARY

Information Technology student at **Jadavpur University** with experience in **AI, NLP, and Web Development**. Skilled in Python, C++, MERN stack, and ML frameworks. Researcher and student coordinator at international conferences.

EDUCATION

Jadavpur University

Bachelor of Engineering in Information Technology
CGPA: **7.95/10**

Kolkata, India
Oct 2023 – May 2027

TECHNICAL SKILLS

Languages: C++, Python, JavaScript, TypeScript

Web Development: React.js, Node.js, Express.js, Next.js, Tailwind CSS, REST APIs

Databases: MongoDB, SQL

Dev Tools: VS Code, Git, GitHub, Appwrite, Vercel, Netlify, Render

Data Science: NumPy, Pandas, Keras, Pytorch, Tensorflow, scikit-learn, Matplotlib

Others: Linux, CLI, JSON

RELEVANT COURSEWORK

Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, OOP, **Web Development**, Artificial Intelligence, Machine Learning

PROJECTS

Freshfarm - A grocery shopping app 🌐 GitHub • 🔗 Link

May – June 2025

Tech Stack: MERN Stack, Cloudinary, Stripe API, Tailwind CSS, Vercel

- Built a full-stack grocery e-commerce platform using **MERN stack** (MongoDB, Express.js, React, Node.js).
- Integrated **Stripe API** for secure payment processing and **Cloudinary** for image uploads.
- Implemented **JWT-based authentication** with role-based access for users and admins.
- Designed a responsive UI with **React and Tailwind CSS**, featuring cart management and dynamic quantity updates.
- Deployed on **Vercel** with production-ready REST APIs and CI/CD configuration.

RESEARCH EXPERIENCE

Efficient Vehicle Classification Using a Streamlined Pruned Deep Learning Model 🌐 GitHub

Jadavpur University, October 2024 – March 2025

Tech Stack: Python, TensorFlow, EfficientNetB3, Adamax, Keras

- Proposed a two-stage vehicle classifier combining **EfficientNetB3**, **focal loss**, and **magnitude-based pruning** to reduce model size and address class imbalance.
- Achieved **98.7% (PoribohonBD)** and **97.3% (JUIVCDv1)** accuracy on real-world datasets using **transfer learning** and **region cropping**.
- Optimized for **real-time deployment** in low-resource environments, suitable for traffic monitoring and smart transport systems.
- Built a scalable pipeline for **imbalanced classification tasks** applicable to intelligent urban systems.

VOLUNTEERING EXPERIENCE

Student Chair – 7th International Conference on Computational Intelligence in Communications and Business Analytics (CICBA 2025) 🔗 Link

Jadavpur University, July 2025

- **Led student coordination** for a high-impact international conference with over 300 participants.
- **Managed logistics**, technical sessions, and scheduling in collaboration with the faculty and the organizing committee.
- **Supervised volunteer teams** and assisted in session **moderation** and real-time issue resolution.

CERTIFICATES

Data Annotation – Cmater Labs, Deep Duo Foundation 🔗 Link

March 2025

Gained hands-on experience in meme data labeling, cleaning, and preparation for NLP tasks.