

Soumyadeep Ganguly

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Education

Vellore Institute of Technology, Vellore, M.Sc. in Data Science July 2024 – June 2026

- GPA: 8.73/10.0
- **Coursework:** Artificial Intelligence, DBMS, Machine Learning, Deep Learning, Probability and Statistics

Maulana Abul Kalam Azad University of Technology, West Bengal, B.Sc. in Information Technology (Data Science) October 2021 – June 2024

- GPA: 9.19/10.0
- **Coursework:** Internet of Things, Computer Networks, Operating System, Software Engineering, DBMS, Machine Learning, Deep Learning, Probability and Statistics

Skills

- **Languages:** Python, SQL, C, JavaScript, PHP
- **Frameworks:** Pandas, Numpy, Flask, Scikit-learn, PyTorch, Tensorflow, Laravel, ExpressJS
- **Tools:** PowerBI, Tableau, Microsoft Excel, MySQL, Git
- **Soft Skills:** Teamwork, Report building, Time management, Communication

Experience

Backend Developer, Barracksbuddy – Panipat, India October 2024 – Present

- An educational technology platform that provides coaching for Defence Exams, contributed as a Backend Developer in designing and developing the complete Learning Management System (LMS).
- Enhanced and optimized backend APIs, database models, and authentication modules to ensure seamless course delivery and student progress tracking.

Publications

Performance Analysis of Indian Railway Zones using MCDM Approaches October 2024

Soumyadeep Ganguly, Sugata Ray Chaudhury, Abheek Mukherjee, Amalendu Si

DOI: 10.31181/dma31202549

Projects

AI Based Vehicle Number Plate Detection June 2025

- Improved a YOLO-based Model for Number Plate detection.
- Used the SRGAN model to enhance low-resolution number plate images for better clarity.
- Created a custom lightweight OCR model to recognize number plates.
- Tools used: Python

Health Monitoring System for Factory Workers using IoT April 2024

- Designed an IoT wearable health monitoring device to ensure worker safety in real time.
- Developed a two-level system with health risk notifications.
- Applied machine learning to predict health trends to avoid crises.
- Tools used: MQTT, ESP8266, Python.

Certifications

Data Visualization with Python (IBM): Coursera

Programming with JavaScript: Coursera

Version Control: Coursera