

Arnab Mondal

📍 Kolkata ✉️ arnabmondal1308@gmail.com ☎️ 8001339822 in Arnab Mondal 🎧 ARNAB 🌐 Portfolio

Education

Vellore Institute of Technology, Vellore

July 2024– Present

M.Sc. in Data Science

- GPA: 8.15/10.0
- **Coursework:** Statistics, Exploratory Data Analysis, AI/ML

Maulana Abul Kalam Azad University of Technology, West Bengal

Oct 2021– July 2024

B.Sc. in Information Technology (Specialized in Data Science)

- GPA: 8.66/10.0
- **Coursework:** DBMS, DSA, AI/ML, Deep Learning

Skills

Languages: Python, C, Java, SQL, JavaScript, Shell

Technologies: MySQL, MongoDB, Power BI, Tableau, Git, Linux, PyTorch, TensorFlow, OpenCV

Projects

Low-Light License Plate Detection

(Ongoing)

- Created an advanced system to detect license plates in low-light conditions by integrating YOLO for object detection and GANs for image enhancement.
- **Technologies Used:** Python, PyTorch, YOLOv11, GANs, OpenCV, NumPy, CUDA,

NetOCR: A Lightweight OCR Model [\(github\)](#) [↗](#)

September 2025

- Developed a lightweight OCR system using CNNs for accurate character recognition and benchmarked its performance against fine-tuned ResNet18 model.
- **Technologies Used:** Python, PyTorch, CNN, OpenCV, Matplotlib, CUDA

Context-Aware Spell Checker Using NLP [\(github\)](#) [↗](#)

March 2024

- Built a real-time spell checker using Levenshtein distance and N-gram modeling on the Brown corpus for context-aware corrections.
- **Technologies Used:** Python, NLTK, NLP, Levenshtein Edit Distance, N-Grams

Desktop Voice Assistant [\(github\)](#) [↗](#)

September 2023

- Developed a Python-based voice assistant with speech recognition, TTS, Wikipedia search, web browsing, and app automation.
- **Technologies Used:** Python, Speech Recognition, Text-to-Speech (TTS), Python

Certifications

Management Information Systems [\(Certificate\)](#) [↗](#)

July 2024

- Understanding of Management Information Systems (MIS), including hardware, software, databases, networking, and strategic applications in business.
- Gained insights into information system development, security, and the societal impact of technology.

Career Essentials in Generative AI [\(Certificate\)](#) [↗](#)

May 2024

- Understanding of Generative AI concepts, including AI ethics, applications, and best practices.

Web Development [\(Certificate\)](#) [↗](#)

Nov 2023

- Understanding of web development concepts, including front-end and back-end technologies, coding practices, and website development.