

Aryaman Gupta

aman.aryaman12112022@gmail.com +91-9998778349 LinkedIn GitHub

Education

B.Tech in Computer Science
Vellore Institute of Technology, Bhopal

Expected 2026
CGPA: 8.58/10.0

Technical Skills

MERN Stack: MongoDB, Express.js, ReactJS, Node.js, Redux, REST APIs, Mongoose, Socket.IO.

Machine Learning: Python, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, OpenCV, N8N.

Tools/Applications: Git, Docker, AWS, MATLAB, Postman, VS Code, Jupyter Notebook.

Projects

Mental Health Application

- **Engineered** an AI-driven mental health platform supporting consultations and children's dyslexia/PTSD detection.
- **Integrated** an LLaMA-powered chatbot enabling 24/7 consultations with quick responses, significantly **increasing engagement and retention**.

Multivariate Time Series Anomaly Detection

- **Built** an Isolation Forest-based anomaly detection system with a scalable ML pipeline for preprocessing, calibration, and visualization.
- **Delivered** a dashboard processing 26K IoT sensor samples in minutes, facilitating **rapid anomaly and feature analysis**.

AI-Powered Web Scraper

- **Automated** a scraper using Python, Streamlit, LangChain, and Llama2 to extract data from 1000 URLs with 98% accuracy, **reducing manual workload by 85%**.
- **Modeled** a modular architecture that **lowered bug rates by 40%** and **integrated real-time dashboards** for data visualization.

Experience

Research Project: Hyperspectral Imaging for Agriculture

Feb 2024 – Present

- **Engineered** AI and machine learning models for hyperspectral crop datasets, **improving disease detection accuracy by 25%**.
- **Implemented** data augmentation in MATLAB, **doubling dataset size** and **enhancing model generalization by 22%**.
- **Collaborated** on academic research and conducted comprehensive **model validation** to ensure robustness.

Certifications

- Cloud Infrastructure Data Science Professional – Oracle OCI
- Generative AI Certification – Oracle
- Cyber Security Systems NPTEL

Key Achievements

- Ranked in the **Top 6%** of 11,000 participants in GeeksforGeeks Programming Competitions.
- **Qualified** for Regional Mathematics Olympiad, **ranking top 9** out of 20,000.
- Achieved **AIR 126** out of 50,000 in National General Knowledge Contest.
- **Won 2 hackathons**, including **1st place** among 300 teams.
- Elected youngest **Secondary Vice-Captain**, leading **200 students**.

Co-Curricular Activities

Core Team Member, Microsoft Club, VIT Bhopal

Aug 2023 – Present

- **Led** organization of **2 hackathons** and **1 seminar** for **300 attendees**, **increasing participation by 40% YoY**.
- **Coordinated** sessions with **industry professionals** on **AI, cloud, and game development**.
- **Mentored juniors** in **competitive programming, hackathon preparation, and technical projects**.