

Aryaman Gupta

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SUMMARY

Systems-oriented Computer Science undergraduate skilled in deploying production ML models, architecting high-throughput data pipelines, and automating end-to-end workflows. Proficient in Python, SQL, AWS/GCP, Docker, PyTorch, OCI. Adept at leading technical teams, organizing hackathons, and translating business needs into reliable systems.

EDUCATION

B.Tech. in Computer Science

Vellore Institute of Technology, Bhopal

Expected 2026

CGPA: 8.58/10.0

TECHNICAL SKILLS

Programming Languages & Frameworks: Python, C++, MATLAB, PyTorch, TensorFlow, TensorFlow Lite, LangChain, Llama2.

Cloud & DevOps Platforms: AWS, GCP, Docker, Firebase.

Tools & Applications: SQL, OpenCV, QGIS, Unity, ReactJS, React Native, Streamlit, Canva, PowerPoint.

PROJECTS

AI-Powered Web Scraper

- Developed an automated scraper using Python, Streamlit, LangChain, and Llama2, extracting data from 1000+ URLs with 98% accuracy.
- Reduced manual workload by 85%, accelerating research efficiency.
- Designed modular architecture that lowered bug rates by 40%.
- Integrated real-time dashboards for visualizing scraped data trends.

Plant Disease Detection (CNN)

- Built and deployed a cloud-based CNN with TensorFlow Lite achieving 91% accuracy detecting potato leaf diseases.
- Delivered a mobile-optimized AI app, cutting diagnosis time by 40%.
- Integrated ReactJS, React Native, Firebase, and TensorFlow in a real-time cloud pipeline.
- Enabled offline inference capability for farmers in low-connectivity regions.

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 performed model validation.

CERTIFICATIONS

- Cloud Infrastructure Data Science Professional - Oracle
- OCI Generative AI Certification - Oracle
- Cyber Security & Systems – NPTEL (65%, 4 months)

KEY ACHIEVEMENTS

- Research Assistant on Hyperspectral Imaging and QGIS projects, enhancing AI-driven agricultural data visualization.
- Placed in the top 6% of 11,000+ participants in GeeksforGeeks University Programming Competitions.
- Qualified for the Regional Mathematics Olympiad, ranking in the top 1% of 20,000+ participants.
- Achieved All India Rank 126 out of 50,000+ in a National General Knowledge Contest.
- Won 2 hackathons, including 1st place among 300+ teams, delivering AI solutions.
- Elected as 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 with 300+ attendees, resulting in a 40% participation increase YoY.
- Coordinated sessions with industry professionals on AI, cloud computing, and game development.
- Mentored juniors in competitive programming, hackathon prep, and technical projects.