

Aryaman Gupta

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EDUCATION

Btech– Computer Science	2026	Vellore Institute of Technology, Bhopal	8.58/10.0
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ACADEMIC ACHIEVEMENTS AND AWARDS

- Worked as a research assistant for a college professor on Hyperspectral Imaging and QGIS.
- Ranked 650 among 11,000+ university coders, placing in the top 5% for problem-solving and coding skills.
- Qualified for the Regional Mathematics Olympiad, showcasing advanced problem-solving skills.
- Achieved All India Rank 126 in the National General Knowledge Competition.
- Won first place and prize money in two college-level technical hackathons.
- Appointed youngest secondary vice-captain in school for academic excellence and co-curricular activities.

EXPERIENCE & LEADERSHIP

Ongoing Research: Hyperspectral Imaging for Agriculture

2024 Feburary to present

- Engineered AI models to analyse hyperspectral crop data, improving disease detection accuracy by 25% over traditional imaging methods.
- Tech Stack: TensorFlow, Python, OpenCV, MATLAB.

Core Team Member, Microsoft Club, VIT Bhopal

2023 August to present

- Led two hackathons and one seminar, boosting student engagement by 40% and fostering innovation in cloud computing and AI.

TECHNICAL PROJECTS

AI-Powered Web Scraper Development

- Developed AI-powered web scraper using Python and Streamlit, automating extraction from 1,000+ URLs.
- Integrated LangChain and Ollama Llama2, cutting manual data processing by 85% with 98% accuracy.
- Built Streamlit UI enabling web data scraping and analysis in under 30 seconds per page.
- Engineered modular codebase with 3+ components, improving maintainability and reducing bugs by 40%.

Disease Detection in Plants Using Image Recognition

- Developed a cloud-based Convolutional Neural Network (CNN) model for plant disease detection using TensorFlow Lite, achieving 91% accuracy in identifying potato leaf diseases (late blight, early blight).
- Deployed a mobile-optimized AI model for real-time plant disease detection, reducing manual diagnosis time by 40% and enhancing farmer adoption.
- Tech Stack: TensorFlow, TensorFlow Lite, ReactJS, React Native, Firebase – deployed on cloud-based infrastructure for real-time data processing.

CERTIFICATIONS & TRAINING

- Cyber Security and Systems – NPTEL | 65% | 4 months
- Machine Learning and Data Science Program – GeeksforGeeks | 91% | 2 months
- Virtual Reality Game Development using Unity – Coursera |97% | 4 months
- GIS Data Acquisition and Map Design – Coursera | 5 months

TECHNICAL SKILLS

- Python (Intermediate), C++ (Intermediate), TensorFlow, TensorFlow Lite, MATLAB (Beginner) , AWS , Google Cloud, Docker ,Game Development: Unity, Virtual Reality, GIS & Computer Vision: OpenCV, GIS Data Acquisition , SQL,MS PowerPoint, Canva