

# 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

- Served as a **Research Assistant** on Hyperspectral Imaging and QGIS projects, enhancing spatial data analysis.
- Ranked **650th** out of **11,000+** participants on GeeksforGeeks university programming competitions.
- Advanced to the **Regional Mathematics Olympiad**, representing the **top ~1% out of 20,000+** participants.
- Secured **All India Rank 126** in the National General Knowledge Competition among 50,000+ participants.
- Won **1st place in 2 hackathons** among 300+ teams, delivering innovative AI-based technical solutions.
- Elected as the **youngest Secondary Vice-Captain**, leading 200+ students in academics and co-curricular events.

## EXPERIENCE & LEADERSHIP

### Ongoing Research: Hyperspectral Imaging for Agriculture

2024 February to present

- Engineered **AI models** for hyperspectral crop data, improving disease detection accuracy by **25%..**
- Tech Stack: TensorFlow, Python, OpenCV, MATLAB.

### Core Team Member, Microsoft Club, VIT Bhopal

2023 August to present

- Organized and **led 2 hackathons and 1 seminar** with 300+ attendees, increasing engagement by **40%.**

## TECHNICAL PROJECTS

### AI-Powered Web Scraper Development

- Built an **AI-powered web scraper** using Python & Streamlit to automate data extraction from **1,000+ URLs**
- Integrated **LangChain & Ollama Llama2**, reducing manual data processing by **85%** with **98% accuracy**.
- Designed a **Streamlit UI** for real-time data scraping and analysis in under **30 seconds per page**.
- Engineered a **modular codebase** with 3+ components, improving maintainability and reducing bugs by **40%.**

### Disease Detection in Plants Using Image Recognition

- Developed and deployed a cloud-based **Convolutional Neural Network (CNN)** using **TensorFlow Lite**, achieving **91% accuracy** in detecting **potato leaf diseases** (late and early blight), reducing **manual diagnosis errors** and enabling **faster farmer adoption**.
- 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