SUPRIYA MISHRA

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EDUCATION

Vellore Institute of Technology   **2022-2026**

Bachelor of Technology in Computer Science Engineering – CGPA: 8.17/10.0

Minor in Cyber Security and Digital Forensics   *Bhopal, Madhya Pradesh*

CORE COMPETENCIES

-Technical Proficiency	-Data Structure and Algorithms	-Software Proficiency
-Problem Solving Skills	-Statistical Analysis	-Project Management
-Data Analysis	-Artificial Intelligence	-Data Visualization

PROJECT EXPERIENCE

LeafGuard-AI: Mulberry Disease Detection   **April 2025**

• Tech Stack: Python, Flask, TensorFlow, HTML, CSS, Google Colab

• Built a web-based deep learning model that detects mulberry leaf diseases in real time.

• Deployed model via Colab using Git LFS to handle large ML assets.

NetraGuard: Tampered Frame Detection in Surveillance Videos   **January 2025**

• Tech Stack: Python, OpenCV, CNN, Django, Google Colab

• Built ML pipeline to detect frame-level tampering in CCTV videos using MobileNetV2 and Isolation Forest.

• Created a secure web interface for video upload and tampering visualization.

Quick.AI – Full Stack AI SaaS Platform with Subscriptions   **July 2025**

• Tech Stack: PERN (PostgreSQL, Express.js, React.js, Node.js), Clerk, Stripe, NeonDB, OpenAI API, Docker, CI/CD

• Engineered and deployed a **production-grade SaaS application** enabling secure authentication (Clerk), role-based access control, and **subscription billing (Stripe)** for premium AI services.

• Integrated **AI-powered features** including article/blog generators, resume analyzer, image background/object remover, and AI image generator, enhancing user engagement and platform utility.

• Architected a **scalable serverless PostgreSQL database (Neon)** for efficient data management and optimized query performance, ensuring reliability under growing workloads.

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, JavaScript, SQL
Web Technologies: HTML, CSS, ReactJS, Flask, Django
AI/ML: TensorFlow, Keras, Scikit-learn, OpenCV, Pandas, NumPy
Databases: MySQL
DevOps & Cloud: AWS (EC2, S3), Docker, Git, GitHub
Tools: Jupyter Notebook, VS Code, PyCharm, Postman, Tableau
Other: OOPS, Networking, Data Visualization, Problem Solving

Soft Skills: Analytical, Research, Time Management, Leadership, Public Speaking, Communication, Team Management, Data Visualization, Decision Making.

Certifications: Agile Methodology (IBM), DevOps, Agile & Design Thinking (IBM), DevOps Fundamentals (IBM), DevOps Fundamental V2 (IBM), AWS Solutions Architect (Ethnus), Bits and Bytes of Computer Networking (Google Coursera), Web Development Bootcamp (Udemy), Oracle Cloud Infrastructure 2025 AI Foundations Associate, Oracle Cloud Infrastructure 2025 Generative AI Professional.

EXTRACURRICULAR

- **Lead-Operations |** *Cyber Warriors Club, VIT*
- **Lead-PR and Outreach |** *Fintech Club, VIT*
- **Co-Lead-Planning and Curration |** *Cyber Warriors CLUB, VIT*

ADDITIONAL ACHIEVEMENTS

• **Experience: Space Tech Intern** – India Space Lab Winter Internship and Training Program (30-day internship focused on drone tech, satellites, and space entrepreneurship)

• **Paper Published: "Designing a VPN Using Open Network Infrastructure with Enhanced Security and Performance"** – Presented at ICET-24 (Nov 2024)