SAURABH SINGH

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PROFESSIONAL SUMMARY

B.Tech AI & ML student at VIT Bhopal with strong fundamentals in **Python, C++, DSA, Java and Computer Networks** and hands-on experience building responsive websites with **React, HTML and CSS**. Developed two academic projects — an AI health prediction system and an IoT smart-farming solution — using Flask, TensorFlow and Firebase. Seeking an entry-level opportunity to write clean code, learn from an experienced team and contribute to reliable products.

EDUCATION

B.Tech in Artificial Intelligence and Machine Learning — Vellore Institute of Technology, Bhopal | *2023 – 2027 (Expected)*
Relevant Coursework: Data Structures & Algorithms, Computer Networks, DBMS, Operating Systems, Machine Learning, Cloud Computing

TECHNICAL SKILLS

- **Languages:** Python, C++, Java, JavaScript, HTML, CSS
- **DSA & Problem Solving:** Data Structures & Algorithms — LeetCode & HackerRank (Python Basics)
- **Frontend:** React.js, Tailwind CSS, Bootstrap, Jinja2
- **Backend:** Flask, Spring Boot, RESTful APIs, Object-Oriented Programming
- **Databases:** MySQL, DBMS
- **Cloud & Tools:** AWS (EC2, S3, RDS), Firebase, Git/GitHub
- **Core Concepts:** Computer Networks, Machine Learning / Deep Learning (PyTorch, TensorFlow), IoT & Sensors, Arduino

PROJECTS

MediGuide — AI Healthcare Web Application | *Flask, Python, scikit-learn (SVM, Random Forest, Naive Bayes), HTML/CSS/JS, Jinja2* — 2025

- Built a symptom-based disease prediction system that returns ranked possible conditions with care recommendations.
- Developed an ensemble of 3 models on CSV knowledge bases; integrated a Flask backend with a responsive frontend for real-time predictions.
- Role: Full-stack + ML — designed data flow, trained and evaluated models, and built the interactive UI.

Harvest Watch — Smart Agriculture Monitoring System | *IoT, Arduino, Firebase, TensorFlow, Python* — 2025

- Built an IoT + AI solution for real-time crop health monitoring using soil and environmental sensors with mobile alerts.
- Implemented Arduino to Firebase to TensorFlow pipeline enabling live monitoring of multiple fields from a single dashboard.
- Role: IoT & Backend Integration — sensor-to-cloud pipeline and real-time monitoring system.

EXPERIENCE

AI/ML Intern — MP Online Intern Program | *May – Jul 2025 (Remote)*

- Built AI prototypes for e-governance, focusing on data handling and model evaluation for practical use cases.

Advanced Software Engineering Intern — MP Online Intern Program | *2025*

- Contributed to backend integration and clean-code practices with Git/GitHub.

CERTIFICATIONS & ACHIEVEMENTS

- **Introduction to Internet of Things** — NPTEL, IIT Kharagpur (Jan–Apr 2026) — **79%** — *NPTEL26CS37*
- **Google IT Support Certificate** — Google via Credly — Feb 2026 — *credly.com/go/cINKRwJN*
- **Applied Machine Learning in Python** — University of Michigan via Coursera — Dec 2025 — *coursera.org/verify/NAVT21MFPCY3*
- **GenAI Powered Data Analytics** — Forage (TATA) — Sep 2025
- **PyTorch for Deep Learning Bootcamp** — Udemy (52h) — Aug 2025 — *UC-d813b50a*
- **Cloud Computing** — NPTEL, IIT Kharagpur (Jan–Apr 2025) — **69%** — *NPTEL25CS11*
- **Python for Data Science & ML** — Udemy (25h) — Aug 2024 — *UC-ef59695b*
- Consistent practice on **LeetCode (DSA)** and **HackerRank (Python Basics)** — building problem-solving speed and accuracy.

References available on request | Open to relocation — Remote / Hybrid / On-site