Om Patil

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SKILLS

Languages: C++, Python, Java, JavaScript, HTML, CSS
Frameworks Libraries: React, Node.js, Express.js, TensorFlow, Pandas
Databases: MongoDB, SQL
Tools Platforms: Git, Excel, VS Code, Smart Bridge, AWS Basics

EDUCATION

Vellore Institute of Technology   Expected May 2026
BTech Major in Computer Science and Engineering
  Cumulative GPA: 8.34/10

PROJECTS

AGRO-AID   *July 2024 – Sep 2024*
- Developed machine learning models (95% + accuracy) for the prediction of crop yields and early detection of disease.
- Real-time monitoring of soil moisture, temperature, and pH resulting in better irrigation efficiency 15% using sensor networks with data refresh rates of 10-30 s.
- Engineered weather forecasting functionality with precision 80% +, enabling smart irrigation and fertilization schedules.
- Data-driven recommendations reduce water and fertilizer use by 30%, enhancing resource efficiency.
- Enable precision farming and reduce agricultural losses by 20-40%, ensuring higher productivity.
- **Technologies Used:** HTML, CSS, React, JavaScript, Machine Learning

Hospital Management System   *Oct 2023 – Dec 2023*
- Developed a secure system for 3,000+ staff to manage 10,000+ patient records, using role-based access to protect sensitive data.
- Increased administrative efficiency by 40% by automating key workflows like scheduling, patient onboarding, and alerts..
- Built a machine learning model that achieved 88% accuracy in predicting health outcomes from a dataset of over 1 million records.
- **Technologies Used:** HTML, CSS, JavaScript

LEADERSHIP AND CAMPUS ENGAGEMENT

Event Management Core Member, Marathi Club, VIT Bhopal University   2024 - 2025

- Orchestrated annual Ganpati Festival for 500+ students, managing all logistical and operational aspects.
- Co-led end-to-end event operations as a core member, coordinating with programs and stage performances, managing vendors and run-sheets, and resolving on-site issues to deliver seamless, on-schedule experiences.
- Coordinated full day cultural events ensuring seamless execution and high attendee satisfaction.
- Increased event budget by 15% through successful sponsorship acquisition and strategic financial planning.

NOTABLE CERTIFICATIONS

- **Generative AI Using Watsonx – IBM** Certified in GenAI using Watsonx. 🔗
- **DSA in C++ by Coding Ninja:** Certified in C++ programming and D.S.A (Excellence Certificate, above 90%). 🔗
- **SmartBridge Full Stack [MERN]:** Successfully completed the course with hands-on experience. Crafted and deployed a complete MERN stack application. 🔗