

# Om Deepak Patil

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## Skills

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

## Education

<b>VIT Bhopal University</b> (Expected May 2026) BTech Major in Computer Science and Engineering	Bhopal, Madhya Pradesh Cumulative GPA: 8.12/10
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<b>Late Dr. A.G. Thakare College</b> (Jul 2022) 12 <sup>th</sup> Standard- CBSE (Central Board of Secondary Education.)	Percentage: 79%
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<b>Woodridge High School</b> (Jul 2020) 10 <sup>th</sup> Standard- CBSE (Central Board of Secondary Education.)	Percentage: 90.6%
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## Projects

### Hospital Management System (Oct 2023 - Dec 2023)

- Designed a role-based, secure hospital portal for managing patients, appointments, and billing.
- Automated data entry processes, increasing admin efficiency by **40%**.
- Integrated machine learning algorithms to analyse **1M+ data points**, enabling predictive patient management.
- Built with **React, JavaScript, HTML, CSS** and deployed using modular architecture principles.

### AGRO-AID (July 2024-Sep 2024)

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

## Achievement

- Solved More than 100 question on Leetcode
- Successfully completed #DrGVishwanathanChallenge of 100daysofcoding Challenge.
- 3-star rating at code chef

## Notable Certifications

- **Cloud Computing:** Earned certification from IIT Kharagpur. Basics of AWS, EC2, and cloud architecture [🔗](#).
- **Marketing Analytics:** Earned certification from IIT Kharagpur. Data-driven decision-making [🔗](#).
- **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 a project experience. Built and deployed a complete MERN stack project [🔗](#).
- **Bits and Bytes of computer networking By Coursera:** Completed with a score of 98%. [🔗](#).