Priyanshu Bidhuri

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PROFILE

Detail-oriented Full-Stack Developer with strong foundation in C++, modern JavaScript frameworks (React.js, Node.js). Proficient in building scalable web applications using MERN stack, integrating machine learning models.

EDUCATION

VIT-Bhopal University August 2023 – Present
B.Tech in Computer Science and Engineering *CGPA: 8.5/10*

Sai International Public School, Bijnor 2023
Class XII (CBSE) *86%*

TECHNICAL SKILLS

Programming: C++, Python, JavaScript, HTML5/CSS3, Tailwind CSS, React.js/Redux, Node.js/Express.js, Flask, REST APIs, MongoDB/postgreSQL

Tools: Git/GitHub, Docker, Postman, AWS

Concepts: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Machine Learning,Computer Networking

CERTIFICATIONS

- MERN Stack Development, Udemy (2025)
- Operating Systems, Coursera (2024)
- Machine Learning with Google Colab, SmartBridge (2025)

PROJECTS

Transport Scheduling System October 2024
Full-stack Web Application (MERN Stack)

- Built MERN stack application with real-time vehicle tracking using Google Maps API and automated scheduling algorithms
- Implemented JWT authentication and role-based access control with Node.js backend serving RESTful APIs
- Developed React frontend with Redux and Tailwind CSS, deployed on Render with CI/CD pipeline
- Improved dispatch efficiency by 35% and reduced manual errors by 20% through system automation

Route Rationalization Model January 2025
Machine Learning System for Traffic Management

- Trained K-Means clustering model (Python/Scikit-learn) achieving 92% accuracy on traffic pattern analysis
- Processed 10,000+ daily data points from municipal sources using Pandas/NumPy data pipeline
- Developed Flask API that reduced processing time from 15 minutes to 45 seconds
- Achieved 15% route efficiency improvement and 12% fuel cost reduction in pilot deployment

FarmStackAI – AI-Powered Agricultural Platform February 2025
MERN, Flask, Machine Learning

- Built full-stack MERN web application with secure JWT/Bcrypt authentication and community forum for farmer collaboration
- Designed and deployed an ensemble ML model (Flask, Scikit-learn, Pandas, NumPy) to recommend crops based on soil and environmental parameters
- Integrated ML model with backend APIs, enabling real-time recommendations and handling 1,000+ user inputs efficiently
- Enhanced farming decisions with data-driven insights, reducing trial-and-error and supporting sustainable practices

EXPERIENCE

Machine Learning Extern Summer 2025
SmartBridge *Remote*

- Developed and deployed ML models (neural networks, decision trees) achieving 85%+ accuracy using Python and Google Colab
- Implemented complete ML pipelines from data processing to deployment with NumPy, Pandas, and Scikit-learn
- Collaborated on team projects to solve real-world problems using TensorFlow and machine learning techniques

ACHIEVEMENTS

- Top 20 Finalist - Microsoft CodeForge Hackathon 2025
- 250+ DSA problems solved on LeetCode

EXTRACURRICULAR

Technical Member 2023–Present
GeekforGeeks Student Chapter

- Organized coding workshops for 50+ students
- Conducted peer learning sessions on DSA and Web Dev