

SUMIT KUMAR

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OBJECTIVE

Full-Stack Developer seeking roles to build innovative web and AI solutions using MERN stack and machine learning expertise

EDUCATION

B.Tech in Computer Science and Engineering, University College of Engineering and Technology (VBU), Hazaribagh **Expected 2026**

CGPA : 7.68/10

SKILLS

Programming Languages

Python, Java, JavaScript

Web Development Technologies

HTML, CSS, React.js, Node.js, Express.js, Flask, Tailwind CSS, Material-UI

Databases & Tools

MongoDB , JWT, Axios, Tailwind CSS, Material-UI,Version control (Git)

Machine Learning

PyTorch, OpenCV, YOLOv5, ResNet18, model training, hyperparameter tuning, data preprocessing,computer vision

Web Development

RESTful API design, frontend-backend integration, responsive UI/UX design

Areas of Interest

Data Structure and Algorithms, Web Development

Soft Skills

Problem-Solving, Teamwork, Time Management, Communication, Adaptability

EXPERIENCE

Vocational Training

June 2025 – July 2025

CSIR-CIMFR

Dhanbad

- Built a web application for iron ore classification using React.js, Flask, and MongoDB.
- Integrated YOLOv5 and ResNet18 for real-time detection (precision: 0.779, recall: 0.812)
- Implemented JWT authentication and real-time monitoring features.

Web Developer

December 2023- February 2024

Appting

Bangalore[Online]

- Built 5–10 small projects using HTML, CSS/Material UI, JavaScript, and React under guidance. Fixed bugs, added features, and joined team discussions on best web practices.

PROJECTS

CSIR Mine Monitor. Developed a full-stack application for iron ore classification with React.js and Flask. Used ResNet18 and YOLOv5 for image classification and real-time detection.

Wanderlust. Wanderlust is a web application inspired by Airbnb, enabling users to list, edit, and delete properties, add reviews, and explore homes via an interactive Map Tiler map. It features secure user authentication and profile management. Built with Node.js, Express.js, MongoDB Atlas, and JavaScript, the app is deployed on Render for cloud based scalability. Live Website : [Wanderlust Github](#)

Hospital Management System (MERN Stack). Built a full-stack web app for managing patients, doctors, and hospital operations with secure authentication, REST APIs, and responsive UI using MongoDB Atlas, Node.js, Express, React, and Tailwind CSS. [Frontend](#) , [Backend](#) Live Website : [Hospital Management System](#)

ACHIEVEMENTS

- Certificate of training in Web-Development : [Link](#)
- Full Stack Web-Developer