

Vishal Kumar

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CAREER OBJECTIVE

Aspiring software engineer skilled in MERN stack development, AI/ML, and DSA in Java, seeking opportunities to build impactful solutions using modern web technologies.

SKILLS

Technical Skills

Programming & Data Analytics: Java, Python, SQL, Data Structures & Algorithms, Data Analysis, Data Visualization (Excel, Google Sheets, Matplotlib, Pandas, NumPy)
Web & Software Development: HTML, CSS, JavaScript, Node.js, Express.js, React.js, MongoDB
Machine Learning & AI: AI/ML Fundamentals, TensorFlow, Keras, CNN Models, Data Preprocessing
Database & Cloud Technologies: DBMS, MongoDB Atlas, MySQL, AWS EC2, Render, Google Colab
Version Control & Tools: Git, GitHub, Google Workspace (Docs, Sheets, Slides, Gmail), Docker, API Integration

Soft Skills

Collaboration
Problem Solving
Analytical Thinking
Effective Communication

INTERNSHIP EXPERIENCE

Predulive Edutech Foundation

08/2024 – 10/2024

Worked extensively on front-end technologies to design and develop dynamic and user-friendly digital websites.

PROJECTS

COLLABCODE | Online Collaborative Code Editor

02/2025 – 04/2025

- Developed a real-time collaborative code editor with support for 50+ users, synchronized coding via socket.io, and unique room IDs
- Optimized a scalable Node.js backend using WebSockets to achieve <50ms latency with secure code execution.
- Technologies Used : JavaScript, React.js, Express.js, socket.io, Docker, Tailwind CSS, HTML, CSS, API, AWS EC2, AI-powered code reviewer.

AI-BASED PLANT DISEASE DETECTION SYSTEM

10/2024 – 11/2024

Deep Learning Model

- Developed a Convolutional Neural Network (CNN) model using TensorFlow to detect plant diseases from leaf images.
- Utilized a dataset of healthy and diseased leaf images, achieving **85.85%** validation accuracy in disease classification.
- Technologies Used : Python, TensorFlow, Keras, Google Colab, Kaggle Dataset.

ODYSSEY

03/2024 – 05/2024

Travel Destinations Website

- Developed a Full-stack web application for listing homes and finding travel destinations, providing a platform for users to showcase their properties and for tourists to explore and discover the best locations.
- Integrated Cloudinary for image storage, Mapbox for interactive maps, and MongoDB Atlas for secure and scalable database management.
- Utilised HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, Bootstrap, and other modern web development tools.

CERTIFICATIONS

- Machine Learning Methods and Tools
- Cloud Computing Fundamentals

EDUCATION

Bachelor of Technology - Computer Science and Engineering

2021 – 2025
CGPA - 8.61

Gurukula Kangri Deemed To Be University

Senior Secondary

2020
77%

Gyandep High School, Digha, Patna

Secondary

2018
88.2%

Shakti Shanti Academy, Ami, Saran