

# 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  
Gurukula Kangri Deemed To Be University

2021 – 2025  
CGPA - 8.61

Senior Secondary  
Gyandeep High School, Digha, Patna

2020  
77%

Secondary  
Shakti Shanti Academy, Ami, Saran

2018  
88.2%