

# Ankit Dimri

## Developer

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leetcode.com/u/user4612MW/

portfolio-nine-orcin-33.vercel.app/

## Summary

Resourceful and results-driven Developer with 3+ years of experience in full-stack web development, MERN Stack, Python, and Machine Learning. Proven track record of building responsive web applications, developing RESTful APIs, mentoring learners, and solving complex problems using data structures and algorithms. Strong understanding of front-end and back-end development with a focus on scalable and maintainable solutions.

## Education

### Bachelor of Arts (B.A.)

Shri Dev Suman (PG) College

## Technical Skills

Frontend: HTML5, CSS3, JavaScript, React.js, React Native (Expo), Bootstrap, Tailwind CSS,

Backend: Node.js, Express.js, Django, Flask, REST APIs, JWT Authentication,

Databases: MongoDB, PostgreSQL, Redis,

Programming: Python, JavaScript, TypeScript, C++,

Machine Learning: NumPy, Scikit-learn, NLP, FastAPI, Data Preprocessing & Evaluation,

Tools & Deployment: Git, GitHub, Postman, VS Code, Vercel, Render,

For detailed projects and implementations, check my

## Work Experience

### Tutodude • Remote

Technical Mentor – Full Stack, React Native & AI/ML

Feb 2023 – Feb 2026

Mentored 5,000+ students in MERN Stack, DSA (C++/Python), ML, Data Science, and React Native. Guided development of production-ready full-stack and ML applications while resolving technical queries.

- Led real-world ML projects including Employee Retention Analysis, Food Delivery Time Prediction, and Global Pollution Analysis.
- Supervised end-to-end ML workflows: preprocessing, feature engineering, modeling, and evaluation.
- Improved student project completion and practical implementation skills through structured mentorship.

## Projects

### Neural Network for Image Recognition of Letters A, B, and C

Developed a neural network to recognize letters A, B, and C with 95.67% accuracy.

- This project demonstrates a simple neural network for recognizing images of letters A, B, and C using Python and NumPy. The dataset consists of binary images for each letter, represented as lists and encoded into NumPy arrays. The network features 30 input neurons, 5 hidden neurons with a sigmoid activation, and 3 output neurons also activated by sigmoid. It is trained using backpropagation with a mean squared error loss function, a learning rate of 0.1, and 100 epochs. After training, it achieved a 95.67% accuracy. For predictions, reshape test samples and use the predict function with trained weights, visualizing accuracy and loss over epochs.
- Tools | Visual Studio Code | Jupyter |

### RN-WALLET – ML-Powered Expense Tracker

Impact: Automated expense categorization using NLP, reducing manual input and improving user experience.

- Built a full-stack mobile expense tracking app with secure authentication (Clerk + JWT), REST APIs using Express, PostgreSQL (Neon) for storage, Redis caching, and a real-time analytics dashboard.
- Designed and deployed a separate ML microservice using FastAPI and Scikit-learn for automatic transaction categorization. Deployed backend and ML services on Render, built the mobile app using Expo Router, and followed a production-style microservice architecture for scalability and maintainability.

Resume saved successfully!

portfolio: portfolio-nine-orcin-33.vercel.app

## Soft Skills

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Collaboration, Problem-Solving, Communication, Time Management, Result-Oriented Mindset

## Additional Skills

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Clean Code & Scalable Application Design

## Languages

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English, Hindi

## Certifications

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Responsive Web Design Developer Certificate | Python (Basic) | HackerRank | Achieved Gold Medal | React Native, Machine Learning | Mern Stack | C++ | Python | Data Science

- Tech: React Native (Expo), Node.js, Express, PostgreSQL (Neon), Redis (Upstash), Clerk Auth, FastAPI, Scikit-learn, render-service,

## TODO-RN – Real-Time Todo App

Built a real-time Todo mobile application using Expo and Convex with progress tracking, dark mode, notifications, and bulk deletion, following a modular architecture with reusable components and custom hooks.

- Tech: React Native (Expo), TypeScript, Convex, Async Storage

## Developer Portfolio

Impact: Demonstrates real-world full-stack deployment and email automation system.

- Built a responsive full-stack portfolio application with a backend REST API to store and send contact messages via SendGrid, implemented a PostgreSQL database for persistent storage, added server-side validation and secure environment configuration, and deployed the frontend on Vercel and backend on Render.
- Tech: React, Node.js, Express, PostgreSQL (Neon), SendGrid, Vercel, Render