

# Sanjay Kumar Purohit

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## Summary

Final-year Computer Science student specializing in **MERN stack development** with hands-on experience in building and deploying full-stack web applications during an internship at **Prodigy InfoTech**. Additionally gained **foundational exposure to AI/ML concepts** through an internship at **Personifwy**, working with libraries such as **TensorFlow and Keras**. Passionate about creating scalable applications, problem-solving, and delivering high-quality user experiences.

## Education

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**Misrimal Navajee Munoth Jain Engineering College**

2022-2026

*Bachelor of Engineering in Computer Science and Engineering*

Chennai, Tamil Nadu

## Experience

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**Full Stack Intern – Prodigy InfoTech**

July 2025-August 2025

- Architected and built four end-to-end web applications, including a secure e-commerce platform and a dynamic social media website, using the MERN stack.
- Developed modern and responsive user interfaces with React and Tailwind CSS for seamless cross-device experience.
- Implemented secure authentication and verification using JSON Web Tokens (JWT).
- Integrated third-party REST APIs (e.g., RapidAPI stock data feed) to fetch, parse, and display real-time data.

**Intern - Personifwy**

April 2024-June 2024

- Explored **AI/ML concepts** through hands-on projects in **NLP and Computer Vision** using Python, TensorFlow, Keras, and OpenCV.
- Assisted in building and evaluating models for:
  1. **Text Classification** → 86% accuracy
  2. **Pet Face Classification (CNN + Transfer Learning)** → 88% accuracy
  3. **Landmark Detection (Transfer Learning + Augmentation)** → 92% accuracy
- Gained exposure to **data preprocessing, transfer learning, and model evaluation workflows**.

## Transferable Experience

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**Customer Support Executive – EbixCash** | Onsite |

Jul 2022 – Oct 2022

- Strengthened communication and problem-solving skills by assisting high-volume client queries in a fast-paced environment.

## Projects

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**Gen-Vidhik Sahayak** | **React, FastAPI, MongoDB, AI (Gemini), RAG**

**AI-Powered Legal Assistant Full-Stack Project**

- Built a full-stack AI legal assistant for case analysis, intelligent chat, and automated legal draft generation.
- Developed a secure backend using FastAPI, MongoDB, and JWT authentication, supporting persistent case, chat, and evidence management.
- Implemented Retrieval-Augmented Generation (RAG) with Sentence Transformers and ChromaDB to retrieve relevant Indian legal documents.
- Created a responsive frontend using React, Tailwind CSS, and Shadcn/UI with case workspace, chat panel, draft editor, evidence upload, and timeline view.
- Integrated Google Gemini API for legal triage, contextual reasoning, and structured draft generation with extracted facts.

## **Stock analysis | React+vite, TailwindCss, MongoDB, Express.js, Node.js**

## **MERN Stack Development Project**

- Built a full-stack stock analysis web app using real-time APIs and historical data to visualize and analyze stock performance.
- Implemented JWT authentication, password encryption, and secured routes for safe user access and data handling.
- Designed a clean UI with stock comparison feature, allowing users to analyze two stocks side-by-side in a single frame.
- Focused on responsive design, optimized user experience, and seamless frontend-backend integration.

Code: <https://github.com/Sanjay9176/StockAnalysis-Webpage>

## **College Symposium Website | React + Vite, Tailwind CSS, JavaScript**

## **Frontend Development Project**

- Designed and deployed the official symposium website for the CSE department at MNM Jain Engineering College
- Developed a fully responsive user interface using Tailwind CSS, featuring modern layouts and smooth user experience across various devices.
- Created and integrated dynamic pages for 14 technical and non-technical events, including a working registration system, contact forms, and venue details.
- Applied a component-based architecture to ensure the website is scalable, maintainable, and optimized for user flow.

Live: [cognit.co.in](https://cognit.co.in) | Code: [https://github.com/Sanjay9176/Cognit\\_Sympo\\_WebPage](https://github.com/Sanjay9176/Cognit_Sympo_WebPage)

## **Landmark Image Classification | VGG19, TensorFlow, Keras, OpenCV, NumPy, Pandas**

## **AI & ML Model Project**

- Developed a high-accuracy landmark classification model using VGG19 transfer learning with TensorFlow and Keras.
- Applied image preprocessing, augmentation, and label encoding to improve generalization and model performance.
- Achieved over 92% accuracy through a custom batch-training loop and advanced image preprocessing techniques.
- Enhanced model performance by implementing data augmentation, hyperparameter tuning, and comprehensive prediction analysis.

Code: <https://github.com/Sanjay9176/LandMarkDetectionModel>

## **Skills**

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- **Programming:** Python, JavaScript, HTML, CSS
- **Frameworks & Libraries:** React.js, FastAPI, Node.js, Express.js, Tailwind CSS, Shadcn/UI, Bootstrap
- **Databases:** MongoDB, ChromaDB-Vector Database, SQL
- **AI / NLP:** Retrieval-Augmented Generation (RAG), Sentence Transformers, Vector Embeddings, Google Gemini API, Natural Language Processing
- **Tools & Platforms:** Git, GitHub, Visual Studio Code, Postman, Power BI
- **Soft Skills:** Problem-Solving, System Thinking, Team Collaboration, Adaptability, Continuous Learning, Team Leadership

## **Certification**

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- Fundamentals of Digital Marketing | Google Digital Garage
- Ethical Hacking | NPTEL