VISHAL JAIN

AI/ML Engineer | Deep Learning | Full Stack Developer

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SUMMARY

AI/ML-focused Computer Science undergraduate with internship experience building deep learning models, RAG-based chatbots, and full-stack web applications. Published research on CNN-based image classification at I3CSET-2025. Proficient in Python, LangChain, PyTorch, MATLAB, and MERN stack development.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, MATLAB, SQL

AI/ML: Deep Learning, Machine Learning, Computer Vision, CNN, Transfer Learning, Model Training, Hyperparameter Tuning, PyTorch, Scikit-Learn

Generative AI: LangChain, RAG, LLM, Prompt Engineering, Hugging Face

Web: React.js, Node.js, Express.js, Flask, REST APIs, HTML5, CSS **Tools:** Git, GitHub, MATLAB, Postman, VSCode, Docker

Data: Pandas, NumPy, Matplotlib **Database:** MongoDB, MySQL, ChromaDB

EXPERIENCE

AI/ML Intern — Jan 2026 – Present

DigitalYug Innovation

- Built a Doctor Classification Model using supervised machine learning with fine-tuning techniques to accurately classify medical specialists based on patient symptom data.
- Developed a Legal RAG-based Chatbot using LangChain and LLMs, enabling users to query Indian legal statutes, acts, and case law with context-aware, accurate responses from a vector database.

PROJECTS

Classification of Tyre Health Conditions using Deep Learning

MATLAB, CNN, ResNet-50, Transfer Learning, Image Augmentation, Deep Learning Toolbox

- Built a deep learning image classification system using ResNet-50 transfer learning to categorize vehicle tyre images as Good or Defective, achieving **96% classification accuracy**.
- Published research paper *'Classification of Tyre Health Conditions Using CNN-Based Image Classifier'* at **I3CSET-2025** international conference.

Tire Accuracy Prediction System

Python, MATLAB, Machine Learning, Flask

- Developed an ML-based tyre feature analysis system for accuracy prediction and fault detection, aiding in proactive maintenance.
- Deployed web-based interface via Flask API for real-time tyre accuracy predictions and end-user accessibility.

Digital Event Management Platform (Event-Hub)

React.js, Node.js, Express.js, MongoDB, JWT Authentication, REST APIs

- Built a MERN-stack platform enabling colleges to manage events, registrations, schedules, and digital updates with responsive UI.
- Implemented JWT-based authentication, RESTful API backend, and responsive frontend for scalable deployment.

EDUCATION

B.Tech in Computer Science & Engineering (AI & ML) — Oct 2022 – Jul 2026

Meerut Institute of Engineering and Technology (MIET)

CGPA: 8.42 / 10 | Meerut, India

Class XII – Vishva Bharti Vidya Peeth, Chapraulli | 93.2% | Bagpat, India — April 2021 – May 2022

Class X – Vishva Bharti Vidya Peeth, Chapraulli | 76.2% | Bagpat, India — April 2019 – March 2020

CERTIFICATIONS

Introduction to RAG (IBM) | Computer Vision Onramp (MATLAB) | Image Processing (MATLAB) | SQL & Relational Databases 101 (Cognitive Classes)

ACHIEVEMENTS

- Solved **252+ LeetCode problems** (116 Easy, 121 Medium, 15 Hard) with a Contest Rating of **1,386** across 22 contests.
- Earned **LeetCode 100 Days Badge 2025** for consistent daily algorithmic problem-solving.
- Published research paper *'Classification of Tyre Health Conditions Using CNN-Based Image Classifier'* at **I3CSET-2025** international conference.