Meet Vyas

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Education

Pandit Deendayal Energy University, BTech in Computer Science and Engineering 2023 – 2027

- CGPA: 9.51 / 10.00

Skills

Languages: C, C++, Python, R, SQL, Assembly

Libraries: TensorFlow, LangChain, Scikit-learn, NumPy, Pandas

Frameworks: FastAPI, Flask

Data Visualization: Matplotlib, Seaborn, Plotly, MLxtend

Databases: MySQL, PostgreSQL

Tools: Git, Jupyter, VS Code, Shell Scripting (via WSL)

Interests: Machine Learning Core, Computer Vision, Linux, Low Level Programming

Achievements

2nd IEEE International Conference on Artificial Intelligence and Machine Vision (AIMV) Volunteer 2025

- Coordinated logistics, registration, and technical operations for a national-level IEEE AI conference with 150+ participants.
- Gained hands-on experience in event coordination, developing leadership and organizational skills, and actually discovering a passion for managing and leading technical and logistical operations.
- Facilitated speaker and researcher engagement, expanding professional networks and exposure to emerging AI technologies.
- Received certificate [View Certificate].

Smart India Hackathon (SIH) 2025 - Qualified AI Document Intelligence for Kochi Metro Rail Limited (KMRL) 2025

- National Level Hackathon organized by Govt. of India
- Engineered an AI-powered document summarization pipeline for multilingual metro operations data, reducing manual review effort by ∼80%.
- Designed system architecture and integrated backend using Python and Transformers within a 6-member team.

Smart India Hackathon (SIH) 2023 - Qualified Chatbot-based Helpdesk for Government Departments 2023

- Built an API-integrated front-end interface routing user queries to government service portals, streamlining response time by ∼40%.
- Collaborated in a 6-member team to develop a functional prototype under tight deadlines.

Projects

Vision-Tuner: Advanced Fine-Tuning Library for Vision Models GitHub

- Architected a Python library for state-of-the-art image classification models (CNNs & Vision Transformers), supporting 20+ models.
- Implemented full research workflow, including robust k-fold cross-validation, hyperparameter tuning, and a suite of model interpretability visualizations (Grad-CAM, Attention Maps).
- Automated workflows, reducing manual effort by 50% and doubling overall experimentation efficiency.
- Tools Used: Python, TensorFlow / Keras, Pydantic, Scikit-learn, NumPy.

BioAstra - AI-Powered NASA Bioscience Research Dashboard GitHub

- Built a web application to analyze and visualize over 600 NASA bioscience publications, enabling researchers to explore trends and experimental results 3x faster.
- Automated data ingestion and processing using Hugging Face Transformers for NER and PostgreSQL for structured storage.
- Deployed a FastAPI backend to serve processed data, handle complex queries, and provide aggregated analytics for the dashboard.
- Tools Used: Python, FastAPI, PostgreSQL, SQLAlchemy, Hugging Face.

Corporate Expense Reimbursement Platform GitHub

- Engineered a multi-role web app (Admin, Manager, Employee) automating expense reimbursements, reducing manual processing by $\sim$40%.
- Designed dynamic multi-step approval workflows and integrated real-time currency conversion via REST API.
- Tools Used: Python, FastAPI, PostgreSQL, SQLAlchemy.

End-to-End Housing Price Prediction Platform

- Created a full-stack application predicting housing prices using TensorFlow/Keras neural networks with real-time inference capabilities.
- Engineered preprocessing pipelines with Scikit-learn, featuring PCA and feature engineering, improving model accuracy by $\sim$10%.
- Implemented a scalable FastAPI backend with caching for responsive data exploration and predictions.
- Tools Used: Python, FastAPI, TensorFlow, Scikit-learn, Pandas, Matplotlib, HTML, CSS, JavaScript.

Question-Answer Chatbot using LangChain

- Developed a conversational chatbot for text and PDF documents using LangChain and Hugging Face RAG models, achieving $\sim$85% context-based response accuracy.
- Implemented document loaders, embeddings (HuggingFaceEmbeddings), vector store (Chroma), and retrieval chains for precise context-aware answers.
- Tools Used: Python, LangChain, HuggingFace Transformers, Chroma.