

Vishal Vilas Gorule

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Summary

Result-driven **Artificial Intelligence and Data Science** graduate with hands-on experience in architecting and deploying end-to-end machine learning solutions. Proven ability to develop models for **NLP, computer vision and fault detection**, with expertise in **Python, TensorFlow and Generative AI**. Eager to apply skills in building scalable, real-time AI Applications.

Skills

Languages	: Python
Database	: MySQL, AstraDB
ML & DL Frameworks	: Scikit-learn, TensorFlow, Keras, PyTorch, SciPy
Specializations	: Natural Language Processing (Transformers), Computer Vision (OpenCV, YOLO), Generative AI (OpenAI, Gemini Pro, Llama), MLOps (DVC, MLflow)
Tools & Platforms	: Docker, FastAPI, Flask, Git/GitHub, Render, AWS

Work Experience

Solar Secure Solutions, Remote	May 2024 – Aug 2024
AI and ML Intern	
<ul style="list-style-type: none">Architected a multi-model Q&A system using Google's Gemini Pro API handle queries from text, images, documents and URLs.Integrated AstraDB with Sentence Transformers, enabling high-performance semantic search capabilities using vector embedding's.Monitored and debugged LLM performance with LangSmith, improving model reliability and prompt analytics.Designed a responsive Flask web interface and deployed the scalable, containerized applications using Docker and Render	
RacksonIT Developers Pvt Ltd, Pune	Jan 2024 – May 2024
Data Science and Artificial Intelligence Intern	
<ul style="list-style-type: none">Contributed to the development and deployment of an AI model for solar panel fault analysis, improving detection efficiency.Collaborated in building automated systems using Python, OpenCV and various machine learning frameworks.	
Qsective Solution, Ichalkaranji	2021 - 2022
Python and Machine Learning Trainee	
<ul style="list-style-type: none">Engineered and validated machine learning models for regression and clustering tasks, improving predictive accuracy.Executed data preprocessing, feature engineering and wrote automation scripts using Python.	

Education

SIT, Yadav	Aug 2020 - Jun 2024
B.Tech in Artificial Intelligence and Data Science	CGPA: 7.06/10

Project Work

End-to-End MLOps Platform for Stock Forecasting: [GitHub Repo]	
<ul style="list-style-type: none">Architected and deployed a full-stack, containerized MLOps platform using Docker, FastAPI and Streamlit.Engineered a multi-model data pipeline fusing 15+ years of market data with FinBERT-derived news sentiment.Developed and tuned a Transformer model, achieving a final R-squared of 0.823.Implemented a complete MLOps workflow with DVC for versioning and MLflow for experiment tracking.Deployed the model to an interactive dashboard with a Backtesting Engine and Data Drift Monitoring.	
Solar Panel Fault Detection System: [GitHub Repo] [Live Demo]	
<ul style="list-style-type: none">Engineered a computer vision system by fine-tuning an EfficientNetB3 model on a dataset of ~3000 images to classify 6 types of solar panel faults, achieving ~85% accuracy and an F1-score of ~0.83.Architected a full-stack solution featuring a FastAPI REST API capable of ~150ms inference per image and an interactive Gradio web interface for real-time user interaction.	
AI-Based Poultry Disease Detection System: [GitHub Repo]	
<ul style="list-style-type: none">Engineered a poultry disease detection system using VGG16 with transfer learning, achieving ~95% classification accuracy.Enabled rapid, real-time diagnosis via a Flask REST API and deployed on Render and AWS.	

Publications

The Hospital Management System, IRJMETS, Dec 2024 URL: <https://www.doi.org/10.56726/IRJMETS47223>

Awards and Certificates

- Data Science with Python – Simplilearn
- Natural Language Processing with Classification and Vector Spaces – Coursera