Likhith Usurupati

♦ Bangalore, India | ► likhith.usurpati28@gmail.com | ♦ likhithusurupati.dev | India likhith-usurupati28
♦ likhith-ts

Summary

Entry level AI/ML engineer & Data Scientist with a strong foundation in deep learning, computer vision, NLP, and LLMs. Experienced in developing and evaluating machine learning pipelines using Python, TensorFlow, PyTorch, and Scikit-learn. Built end-to-end solutions for fraud detection and medical image analysis as part of academic and internship projects. Comfortable working in collaborative environments and eager to contribute to real-world AI applications through research-driven engineering.

Education

SRM Institute of Science and Technology - Chennai, India

Aug 2020 - May 2024

B.Tech in Computer Science and Engineering with Spl. in Big Data Analytics

• Open-Electives: Machine Learning I & II, Deep Learning, Streaming Analytics, Business Intelligence

• **GPA:** 9.07/10

Experience

Machine Learning Intern - Alcan Automate Pvt. Ltd - Remote, India

Nov 2022 - Jan 2023

- Trained in ML workflows, EDA, feature engineering, and model evaluation over 3 months..
- Built and optimized an ANN model on chocolate ratings dataset, achieving 97.5% regression accuracy.
- Conducted data cleaning and visualization to extract key trends and improve model inputs.

Projects ☑

Credit Card Fraud Detection using BiLSTM and VAE-GAN Oversampling

[/]

- Built a model combining BiLSTM (temporal learning) and VAE-GAN (oversampling) for anomaly detection.
- Achieved 93.2% F1-score and 95.6% recall, outperforming XGBoost, RF baselines by 15%+.
- Dataset: 284K+ transactions with <0.2% fraud rate...
- Tools: Python, BiLSTM, VAE-GAN, Ensemble Models, TensorFlow, Sklearn, Pandas, Matplotlib

AI-Powered Skin Cancer Detection & Medical Report Generation

C

- Developed an end-to-end diagnostic system using ResNet + Gemini API for lesion classification and medical report generation.
- Achieved 91% test accuracy on ISIC dataset (25K+ images)...
- Built with Flask, MySQL, REST APIs; includes auth and session management for user access.
- Tools: Python, Flask, ResNet, OpenCV, Gemini API, MySQL, SQLite, REST APIs

Technical Skills

Programming Languages: Python, C++, Rust, SQL, Javascript, HTML/CSS, Bash

Deep Learning Frameworks: TensorFlow, PyTorch, Keras

Web & Deployment: React, Nextjs, Vite, Flask, Streamlit, FastAPI, Git, Docker, Rest APIs

Cloud & DevOps: AWS, GCP, Kubernetes, DigitalOcean, Github Actions Databases & Vectors: MySQL, PostgreSQL, MongoDB, Redis, Pinecone Python Libraries: NumPy, Pandas, Scikit-learn, Pydantic, OpenCV, NLTK

AI Tools & Frameworks: LangChain Ecosystem, HuggingFace, OpenAI, Anthropic, MCP, Gemini, Github Copilot