Arpit Jain

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Summary

Built a real-time emotion recognition model, UPI fraud detection system, and diagnostic reporting tools with measurable accuracy gains. Completed internships creating chatbots, automating QA pipelines, and improving data workflows, reducing processing time by up to 70%.

Technical Skills

Python (Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib, Seaborn), SQL, Power BI, Excel, Machine Learning & Deep Learning (EDA, Feature Engineering, Regression, Classification, Clustering, CNNs, RNNs), Flask, FastAPI, Git/GitHub, AWS

Projects

Diabetic Retinopathy Detection | Python, Scikit-learn Aug 2025

- Trained Random Forest and SVM models on retinal image features, achieving 85% accuracy in detecting early signs of diabetic retinopathy and assisting in risk identification.
- Engineered texture, intensity, and shape-based features from medical images, applying denoising and normalization techniques to improve model reliability.
- Generated diagnostic reports from predictions, presenting results in a structured format to aid healthcare professionals in decision-making.

MoodSense – Emotion Recognition | Python, TensorFlow, OpenCV May 2025

- Developed a system that classified 7 human emotions in real-time, displaying live confidence scores and overlays to provide immediate feedback.
- Processed and analyzed over 5K emotion-labeled data points, creating structured visual reports that highlighted behavioral trends and patterns.
- Integrated OpenCV for frame-by-frame webcam inference, ensuring smooth and stable predictions suitable for interactive use cases.

UPI Fraud Prediction | Python, Scikit-learn, Flask Nov 2024

- Built a fraud detection pipeline on 10K+ UPI transactions, reaching 92% accuracy, 90% precision, and 88% recall, minimizing risks in digital payments.
- Designed new features capturing transaction frequency, amount irregularities, and temporal patterns to enhance fraud classification performance.
- Deployed the model using Flask for real-time predictions, reducing false positives by 15% and improving trust in transaction screening.

Experience

Velocis **Aug 2025 – Present**
Machine Learning Intern *Noida, UP*

- Built a chatbot connected to SQL databases that handled around 70% of routine queries, reducing manual effort for support teams.
- Improved preprocessing pipelines by restructuring data handling steps, which cut processing time by nearly 25%.
- Collaborated with developers and analysts to design and deliver workflows that could be scaled and maintained in production.

AWC Software **Dec 2024 – Feb 2025**
Python Intern *Noida, UP*

- Automated QA testing pipelines with Python + PowerShell, reducing bug detection time by 50%.
- Streamlined reporting by parsing 1K+ XML results per cycle, accelerating deployments.

Education

VIT Bhopal University **Oct 2022 – Present**
B.Tech in Computer Science and Engineering

Certifications and Achievements

Machine Learning (Coursera) — SQL LeetCode (Top 50) — Kaggle Competitions Participant