Aniket Pawar

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Summary

Final-year B.Tech student specializing in Deep Learning, NLP, and Computer Vision. Experienced in building end-to-end AI pipelines, from training Neural Networks using Transfer Learning to deploying real-time applications via Streamlit. Seeking to leverage skills in Generative AI and image processing as a Software Engineer Intern.

Education

Deogiri Institute of Engineering and Management Studies 2022 – 2026
Bachelor of Technology in Computer Science and Engineering
Relevant Coursework: Machine Learning, Deep Learning, Data Structures & Algorithms, DBMS

Technical Skills

- **Languages:** Python, SQL (MySQL, SQLite)
- **AI/ML & Deep Learning:** TensorFlow, Keras, MobileNetV2, Transfer Learning, Scikit-learn, NumPy
- **Core Competencies:** Computer Vision (CNNs), Natural Language Processing (NLP), REST APIs, Random Forest
- **Developer Tools:** Git, GitHub, Linux (Ubuntu), VSCode, Google Colab, Streamlit, Flask

Projects

AI Career Coach *Python, Flask, Gemini Pro (LLM), Streamlit*
- Developed a Generative AI application using **Google's Gemini Pro API** to perform advanced NLP tasks on resume data.
- Built a Python Flask backend to handle PDF parsing and prompt engineering, delivering instant feedback on resume content.
- Engineered features for "Job-Specific Tailoring" and "Roadmap Generation," integrating LLMs into a Streamlit UI.

Real-Time Pothole Detection System *Python, TensorFlow, MobileNetV2*
- Engineered a lightweight Computer Vision model using **Transfer Learning** with **MobileNetV2** for low-latency inference.
- Implemented a robust data pipeline with **Data Augmentation** (rotation, flips) to prevent overfitting on road images.
- Achieved a **Test Accuracy of 93.57%** and deployed the model via a **Streamlit** web interface for real-time demos.

Fraud Detection System *Python, Scikit-learn, Random Forest*
- Developed a high-precision Random Forest classifier on a financial dataset of **6.3 million transactions**.
- Engineered behavioral features such as "Balance Error" to identify account-draining patterns, achieving **99.7% Recall**.
- Benchmarked performance against the legacy rule-based system, demonstrating a **500x improvement** in fraud coverage.

Certificates

- **Supervised Machine Learning: Regression and Classification** – Stanford University (Coursera)
- **Programming for Everybody (Getting Started with Python)** – University of Michigan (Coursera)

Awards and Extracurriculars

- Passed the **Dr. Homi Bhabha Balvaidnyanik Competition**, a state-level science talent search.
- Contributed as an **Indigo Squad Member** at **Mood Indigo, IIT Bombay** (2023).
- Served as **Co-President** of the Anime Club, organizing events and managing community engagement.