Atharv Mahajan

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Professional Summary

Computer Science student with internship experience applying machine learning in Fintech and Healthtech settings. Skilled in developing and deploying computer vision and NLP models using Python, TensorFlow, and Scikit-learn. Proficient with AWS (Certified AI Practitioner) and full-stack tools including React and FastAPI. Passionate about bridging technical development with Go-To-Market strategy to build impactful products.

Technical Skills

Proficient: Python, NumPy, Pandas, Scikit-Learn, TensorFlow, NLTK, SQL (PostgreSQL, MySQL)
Experienced: JavaScript, React, FastAPI, Git, GitHub, n8n, LangChain, Gemini API
AWS: EC2, S3, Lamda, Amazon Sagemaker AI, Amazon Bedrock

Experience

Leads-Campaign | *Machine Learning Intern* *March 2025 - August 2025*

- Engineered a classification model to automate car insurance claim categorization, achieving 96.4% accuracy and **reducing manual review time by 30%**, saving an estimated 20 labor hours per week.
- Developed an AI-powered credit scoring engine, achieving an **F1-score of 0.92** and improving the **detection of high-risk applicants by 15%** over the previous system.
- Deployed an n8n automation system for CRM data entry, **cutting data entry time by 15%** and **decreasing data entry errors by 25%**.

Projects

lungcare.ai | *React, TensorFlow, Google ViT, Hugging Face* lungcareai.vercel.app

- Developed a full-stack web application that enables healthcare professionals to detect and classify lung cancer using histopathological images.
- Integrated Google's Vision Transformer (ViT) to classify histopathological images, achieving a **98% accuracy rate on the LC25000 lung and colon cancer dataset**.
- **Engineered a data preprocessing pipeline** using TensorFlow's `tf.data` API to efficiently load and augment the 25,000-image dataset, **reducing model training time by 15%**.
- Built a responsive, user-friendly frontend using React and Tailwind CSS, deploying the model via Hugging Face Spaces for an interactive and efficient inference interface.

AI-Fitness-Tracker | *Streamlit, OpenCV, MediaPipe, Python* fitness-tracker-cv.streamlit.app

- Built a computer vision-based fitness tool using MediaPipe and OpenCV to track form and count reps for exercises like squats, pushups, and bicep curls.
- **Engineered a real-time pose estimation pipeline** using OpenCV, optimizing it to run at **30 FPS** on standard webcam hardware.
- **Implemented a visual feedback system** that calculates joint angles in real-time to score exercise form, providing users with immediate corrective guidance to prevent injury.
- Developed a Nutrition Tracker to log meals and monitor dietary intake, integrated within an interactive Streamlit interface.

Certifications

- **AWS Certified AI Practitioner** — View Credential
- **LangChain Academy Introduction to LangGraph** — View Credential

Education

Acropolis Institute of Technology & Research Indore, M.P.
Bachelor of Technology in Computer Science and Engineering; *Expected Graduation: May 2026*

Relevant Coursework: Machine Learning, Deep Learning, Database Management Systems