Atharv Mahajan

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Professional Summary

Computer Science student with internship experience applying ML to the healthtech and fintech sectors. Seeking a Machine Learning Engineer role to build and deploy computer vision and NLP models. Core competencies in Python, TensorFlow, Scikit-Learn, React, and AWS.

Technical Skills

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

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 Academy Cloud Foundations** — View Credential
- **AWS Academy Cloud Architecting** — 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