Atharv Mahajan

m.atharv063@gmail.com | https://athrv.me | linkedin.com/in/atharvmahajan63 | github.com/atharvmahajan32

PROFESSIONAL SUMMARY

Computer Science student with hands-on experience applying machine learning in environments like Fintech and Healthtech. Skilled in developing and deploying computer vision and NLP models using Python, TensorFlow, and Scikit-learn. Proficient in AWS (Certified) and full-stack tools including React and FastAPI. Interested in exploring how technical development aligns with business strategy to create 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 Machine Learning Engineer - Associate** — View Credential

- **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