

# Atharv Mahajan

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## PROFESSIONAL SUMMARY

Machine Learning Engineer Intern with 6 months of hands-on experience building, deploying, and optimizing machine learning systems. Strong in Python, TensorFlow, and scikit-learn, with experience delivering production-ready solutions across computer vision, NLP, and automation. Proficient in AWS and modern backend tools, and seeking internship or full-time opportunities with potential for long-term growth.

## TECHNICAL SKILLS

**Core ML & Data:** Python, NumPy, Pandas, scikit-learn, TensorFlow, NLTK  
**Backend & MLOps:** FastAPI, PostgreSQL, MySQL, Git, GitHub, LangChain, n8n  
**AWS:** EC2, S3, Lambda, SageMaker, Amazon Bedrock  
**Frontend (Secondary):** JavaScript, React

## EXPERIENCE

- Leads-Campaign** | *Full Stack AI 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 and integrated it into a web interface using **React and Redux**, achieving an **F1-score of 0.92**.
  - Deployed an n8n automation system for CRM data entry and document processing, **cutting data entry time by 15%** and decreasing errors by 25%.
  - Participated in architecture planning and code reviews to improve release flow and system scalability within an AWS environment.

## PROJECTS

- lungcare.ai** | *React, Redux, TensorFlow, Google ViT, Hugging Face* [lungcareai.vercel.app](https://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 frontend using React and Redux, utilizing Tailwind CSS for UI and deploying the model via Hugging Face Spaces for efficient inference.
- AI-Fitness-Tracker** | *Streamlit, OpenCV, MediaPipe, Python, Prompt Engineering* [fitness-tracker-cv.streamlit.app](https://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, using **Prompt Engineering** to deliver corrective guidance through an LLM interface.
  - Developed a Nutrition Tracker to log meals and monitor dietary intake, integrated within an interactive Streamlit interface.

## CERTIFICATIONS

- AWS Certified Machine Learning Engineer - Associate & AWS Certified AI Practitioner**
- LangChain Academy Introduction to LangGraph** — Specialized in building cyclic AI agents and stateful workflows.

## EDUCATION

**Acropolis Institute of Technology & Research**  
*Bachelor of Technology in Computer Science and Engineering*

Indore, M.P.  
*Expected May 2026*