

Aditya Lavaniya

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Professional Summary

Machine Learning enthusiast with a strong foundation in mathematics and experience in building end-to-end AI solutions. Skilled in developing multi-agent systems, computer vision pipelines, and data-driven applications. Passionate about research, problem-solving, and sharing knowledge through technical blogs.

Work Experience

Machine Learning Intern | Suvidha Foundation (Remote) | Jul 2024 – Aug 2024

- Built and executed complete data pipelines from sourcing to preprocessing, improving data quality for ML models.
- Developed automated data cleaning scripts, reducing inconsistencies and improving dataset reliability.
- Assisted in training and fine-tuning ML models, ensuring optimized performance for downstream tasks.
- Collaborated with a distributed team to structure datasets for effective analysis and deployment.

Education

Chandigarh University — MCA (AI & ML) | 2024 – 2026 | CGPA: 9.0/10

Poornima University — BCA (AI & DS) | 2021 – 2024 | CGPA: 8.0/10

Technical Skills

Programming: Python, Java, C++

AI/ML Frameworks: PyTorch, Transformers, LangChain, Autogen, LlamaIndex, crewAI, LangGraph, OpenCV, NumPy, Pandas

Tools & Cloud: CUDA, Git, Flask, Docker, AWS, Power BI, Tableau

Soft Skills: Problem-Solving, Communication, Project Management

Projects

DecipherAI | AI-powered Interview Platform

- Built a multi-agent system using crewAI + Streamlit to generate contextual interview questions from resumes.
- Designed adaptive interview flows where AI questions evolve dynamically based on candidate responses.
- Implemented automated feedback generation, helping candidates identify strengths and areas of improvement.

BioMarking | Medical Image Watermarking Tool

- Developed a security system to embed invisible, traceable watermarks in medical images without visible quality loss.
- Engineered an extraction module to identify the exact source of leaked data, strengthening IP protection.

Blog Contributions

- A Deep Dive into Optimization: Explaining SGD & Momentum
- Adaptive Learning Rates: Understanding Adagrad & RMSprop
- Modern Optimizers: Adam & AdamW Explained

Certifications

- Mathematics for Machine Learning — Imperial College London (Coursera)
- Machine Learning — DeepLearning.AI (Coursera)