Yuval Mehta

AI/ML Engineer — Impact-Focused Innovator — Agentic AI Systems

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Education

NMIMS - Mukesh Patel School of Technology, Management and Engineering

June 2025

Bachelor of Technology in Computer Engineering — CGPA: 3.84/4

Mumbai, India

Experience

xLM - Continuous Intelligence

June 2025 - October 2025

AI/ML Engineer

Mumbai. Maharashtra

- Engineered AI agents within cIV, automating GxP compliance workflows and expanding task coverage by 65%.
- Orchestrated LangGraph-based multi-agent systems with retry, memory, and control flows, slashing execution time by 30% and raising success rate by 40%.
- Collaborated with engineering and QA to embed traceable logic, enhancing audit-readiness across workflows.

xLM - Continuous Intelligence

January 2025 - May 2025

AI/ML Intern

Mumbai, Maharashtra

- Constructed a traceability matrix generator, reducing manual overhead by 60% and boosting consistency by 45%.
- Prototyped 3 AI-driven document intelligence solutions, accelerating internal validation cycles by 50%.
- Deployed real-time logging and QA pipelines, achieving 100% traceability in early-stage toolchains.

IIT Kharagpur

July 2024 - May 2025

Machine Learning Intern

Kharagpur, West Bengal

- Devised a video feature extractor using autoencoders and GNNs, improving frame processing efficiency by 30%.
- Optimized hyperparameters to cut training duration by 25% and raise validation accuracy by 18%.

JM Financial Ltd

July 2024 - November 2024

Data Science Intern

Mumbai. Maharashtra

- Streamlined KYC document verification with OCR and deep learning, reducing processing time by 40%.
- Synthesized dashboards and data pipelines, enhancing insight delivery throughput by 3×.

Projects

AI Therapist | Python, LangGraph, LLMs, Supabase, Vector DB, FastAPI

- * Architected an LLM-powered therapy agent with emotion control and memory, improving session consistency by 70%.
- * Refined empathy alignment by 52% through feedback-driven tuning in simulated conversation loops.

LipReader AI | Python, PyTorch, OpenCV, MLflow, TorchServe, Docker

- * Engineered a lip-to-text model with 87% character accuracy and 25% faster inference via TorchServe.
- * Streamlined experiment cycles using MLflow, trimming iteration time by 10%.

AQI Prediction | Python, PyTorch, GCP, FastAPI, MLOps, WandB

- * Devised a dual-view attention model to forecast AQI and 6 pollutants, achieving 93% R² accuracy.
- * Minimized cloud training expenditure by 35% through targeted optimization and automated sweeps.

WS Buddy | Python, LangGraph, QDrant, Whisper, LLM, Diffusion, Docker

- * Developed a multimodal chatbot integrating voice, image, and context memory, reaching 85% task success.
- * Elevated engagement by 30% through dynamic activity updates and real-time interaction.

Technical Skills

Programming Languages: Python, JavaScript, SQL, C, C++, Java

Libraries: Scikit-learn, NumPy, Pandas, Matplotlib, OpenCV, NLTK, SpaCy, SciPy, HuggingFace, Weights & Biases

Frameworks: PyTorch, TensorFlow, Keras, MLFlow, Langgraph, Langchain, FastAPI, Django, Flask, CrewAI

Databases: MySQL, PostgreSQL, Supabase, SQLite, MongoDB, ChromaDB, Redis, FAISS, Qdrant

Tools: VS Code, Jupyter, Kaggle, Git, GitHub, GitHub Actions, DVC, Docker, Nginx, Postman

Cloud Platforms: AWS, GCP

Achievements

Achieved 274th out of 74,824 participants (Top 1%) in the Amazon ML Challenge 2024, with a team of 3-4 members. Published a paper at IEEE APCIT 2024: Examining ML Approaches for Early Diabetes Prediction.