Md Tausif

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PROFESSIONAL SUMMARY

AI/ML Software Developer with 5+ years of experience in Machine Learning, data automation, and 2+ years of hands-on work in Generative AI and RAG pipelines. Expertise in Python, data pipelines, geospatial ML, and real-time analytics. Built 250+ ML models, optimized geospatial analytics achieving a 400x performance improvement, and achieved 97% flood-risk prediction accuracy.

TECHNICAL SKILLS

Generative AI: LLMs, RAG, Prompt Engineering, Agentic AI, Fine-tuning, Vector DBs, OpenAI, LLaMA, LangChain, LangGraph, Ollama, Multi-Model
ML/Deep Learning: XGBoost, Random Forest, Scikit-learn, KNN, Logistic Regression, CNNs, TensorFlow, Numba
Data Engineering: Rasterio, GeoPandas, Shapely, Pandas, NumPy, Airflow (DAGs), Dask
Frameworks: LangChain, LangGraph, Streamlit, FastAPI, Django, Flask, Hugging Face, Transformers
Cloud/DevOps: AWS (EC2, S3, Lambda, SageMaker, Bedrock, SNS, Firehose, Kinesis), Wasabi, Docker.
Languages/DBs: Python, Bash, SQL, PostgreSQL, MySQL, MongoDB, Vector Databases

WORK EXPERIENCE

Software Developer - AI/ML | reThoughtFlood Feb 2022 - Present

- Engineered a raster-processing algorithm achieving 400x faster attribute extraction for real-time geospatial analytics.
- Built and deployed 250+ ML models via FastAPI with Swagger, enabling scalable, low-latency flood-risk inference.
- Optimized ML pipelines, improving flood-risk prediction accuracy by 97%, enhancing underwriting decision support.
- Designed a real-time precipitation alert system using weather APIs and Slack, reducing risk-response time by 65%.
- Spearheaded integration of OpenAI models, reducing embedding costs by 40% and cutting inference latency by 3x for production NLP workflows.

LLM Code and Prompt Reviewer | Remote Tasker Jan 2024 - Mar 2024

- Led quality evaluation of 500+ LLM-generated code outputs across Python, SQL, and data science, improving model response accuracy by 35% through structured prompt engineering feedback loops.
- Established prompt best practices adopted across the team, reducing hallucination rates by 28% and increasing first-pass code correctness.
- Provided actionable feedback informing model fine-tuning, elevating code quality scores from 72% to 91%.

Freelance Data Engineer | LearnKartS Apr 2021 - Jun 2021

- Developed AWS-based data lake architecture using S3, EC2, Lambda, SNS, Firehose, Kinesis for scalable workloads.
- Designed ETL pipelines for ingesting and processing large volumes of structured and unstructured data.

KEY PROJECTS

Multi-Agent AI Travel Planner

- Developed an AI-powered travel planning application using LangGraph, LangChain, LLM, PostgreSQL, and FastAPI, transforming natural-language travel requests into personalized itineraries.
- Designed a multi-agent architecture to coordinate flight recommendations, hotel suggestions, and day-by-day itinerary generation.

GenAI Chatbot with RAG and LLM Fine-Tuning

- Fine-tuned LLaMA/OpenAI models using LoRA and 8-bit quantization, reducing training compute while maintaining accuracy.
- Built an end-to-end RAG pipeline with vector stores, cross-encoder rerankers, and LangChain for high-precision retrieval.

EDUCATION

M.C.A - Machine Learning Specialization | Aliah University, Kolkata | Sep 2021
B.Sc Honours - Mathematics | Dr. Bhimrao Ambedkar University, Muzaffarpur | Jul 2017