

JAGADISH REDDY

Generative AI / Machine Learning Engineer

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 Bengaluru

SUMMARY

Generative AI & ML Engineer (7+ yrs) specializing in LLM applications, multi-agent systems, time-series modeling with foundation models, and production MLOps on AWS. Hands-on lead for GenAI research in financial services (Franklin Templeton); designed multi-agent “Hello World→MVP” for Virtual Systematic Investment Management (vSIM) and benchmarked time-series LLMs for market data. Strong record delivering enterprise ML (ranking, risk, NLP, OCR) and scalable data/infra pipelines (Spark, K8s, Airflow).

CORE GEN AI CAPABILITIES

- **LLM App Dev & Tooling:** LangChain, AutoGen, CrewAI, LangGraph, OpenAI GPT, Claude, Amazon Bedrock, Hugging Face
- **Agents & Orchestration:** Multi-agent planning, tool routing, conversation state, agent memory, eval loops.
- **Financial Data & Time-Series GenAI:** Forecasting experiments w/ Chronos, GPT-style adapters(TimeGPT).
- **RAG & Knowledge Systems:** Vector DBs (FAISS, Pinecone), retrieval pipelines, guardrails, prompt templates.
- **MLOps for GenAI:** MLflow, Ray, BentoML, CI/CD (GitHub Actions, Jenkins), AWS SageMaker endpoints, eval harnesses.

EXPERIENCE

Blend360 (Contract via Arise Tech) – Franklin Templeton (Client)

Dec 2024 - Present

Generative AI Engineer – Research

- Architected & built **multi-agent framework (Hello World baseline)** for **vSIM** to auto-orchestrate strategy generation, simulation, and reporting across investment workflows.
- Implemented **agent tool interfaces** (data fetch, factor calc, portfolio rebalance) + memory store for iterative refinement.
- Designed evaluation harness comparing **time-series LLM variants** (Chronos-style transformer, GPT-adapter, baseline statistical & deep models) on multi-horizon return & volatility signals.
- Automated experiment tracking, dataset versioning, and artifact logging via MLflow + Ray; containerized on AWS (SageMaker + ECR).
- Delivered research findings to quant/portfolio stakeholders; informed next-phase prototype funding.

IBS Software – Expedia (Client)

Sept 2022 - Dec 2024

Lead Machine Learning Engineer

- Developed and deployed **ML pipelines for search relevance and room-type mapping** using GBDT models on AWS.
- Implemented Generative AI personalized content recommendations for users based on their search history and preferences features using **Claude and Titan via Amazon Bedrock**.
- Built NLP models (BERT, VADER) for **customer sentiment analysis** feeding into CX dashboards.
- Automated workflows and retraining pipelines using Airflow; deployed inference services on Kubernetes.
- Developed and maintained end-to-end ML models and MLOps pipelines to map room types for Expedia, focusing on competitor analysis.

Infosys

Jul 2018 - Aug 2022

Technology Analyst

- Developed **credit risk PD models** for mortgage loans using logistic regression (Bank of America).
- Designed **OCR engine** using CNN-LSTM for transactional images reducing 80 man-hours/day.
- Created predictive maintenance models using LSTM for heavy machinery reducing downtime.
- Implemented **ticket routing automation using Random Forest**, saving 40 man-hours/day.
- Engineered scalable data processing pipelines using Spark and Hadoop ecosystems, optimizing resource usage and reducing processing time.
- Handled incremental data loading from Delta tables to SQL Data Warehouse.

PROJECTS

- **Code Explainer (PaLM) & Story Summarizer (Gemini)**: Built lightweight GenAI tools for summarization.
- **GenAI Content Rewriter (Expedia)**: Customized lodging descriptions using Claude and Titan.
- **IRN(Investment research notes) generation**: Built IRN app to summarize earning calls transcripts using LLM as a Judge for evaluation.

SKILLS

- **Languages**: Python, PySpark, SQL, Scala (reading).
- **GenAI/ML**: LangChain, AutoGen, CrewAI, Hugging Face, OpenAI/Claude APIs, TensorFlow, PyTorch, Scikit-learn.
- **MLOps & Data**: MLflow, Ray Tune, BentoML, Airflow, Kafka, Spark, Hive.
- **Cloud & DevOps**: AWS (SageMaker, EC2, EMR, Lambda, S3, ECR), Docker, Kubernetes, GitHub Actions, Jenkins.
- **Data Science**: pandas, numpy, analytics & visualization (Plotly/Matplotlib).

CERTIFICATIONS

Scaler Data Science(2024) • Google Project Management (2023) • Machine Learning A-Z (2020).

ACHIEVEMENTS

- Podium finish in AWS + IBS Generative AI Hackathon.
- Recognized for timely delivery of enterprise ML solutions.

EDUCATION

B.Tech – Electrical & Communication Engineering | Mohan Babu University | 2014 – 2018