

Kunal Janjirala

AI/ML Engineer

Relevant experience: 5 Years

Total experience: 6 Years



+1 225 493 8348

kunaljanjirala6@gmail.com

Alpharetta, GA

Summary



AI/ML Engineer with 6+ years in AIOps/MLOps, specializing in LLM fine-tuning, RAG pipelines, and scalable AI deployments on Azure/AWS. Certified in

Azure Machine Learning, with proven expertise in end-to-end MLOps workflows – model training, validation, deployment, and monitoring. . Generative AI specialist experienced in developing LLM-powered solutions (RAG pipelines, text/image generation) using Hugging Face, PyTorch, and Stable Diffusion.

Work Experience

Home Depot

Oct 2023 - present

AI/ML Engineer

- Designed log ingestion pipelines using Azure Databricks and PySpark to process 10M+ events daily for real-time logistics monitoring.
- Created custom dashboards in Power BI/Tableau mapping Splunk metrics for SLA, anomaly detection, and system health
- Developed end-to-end ML workflows in Dataiku DSS, reducing development cycles by 25%
- Fine-tuned LLMs (GPT, T5, Mistral) and deployed multimodal GenAI solutions via TensorFlow Serving and Hugging Face, achieving 99.9% uptime at 500+ RPS
- Implemented RAG pipelines for delivery route optimization and trained cross-functional teams on MLOps best practices
- Automated ETL with Python/Bash reducing processing time by 35%

TD Bank

Oct 2022 - Sep 2023

Data Scientist / AI Engineer

- Engineered fraud detection pipelines using AWS EMR & Spark Streaming to analyze 1M+ transactions daily;
- Improved detection accuracy by 18% Implemented RBAC policies in AWS/Azure for secure data access and built real-time Qlik Sense alerts for financial KPIs
- Optimized Spark jobs reducing dashboard refresh times by 60% Developed LLM-powered RAG pipelines and OpenAI API chatbots for contextual customer support
- Configured AWS SageMaker and Azure ML environments for scalable training and deployment

Accenture

Jul 2019 - Jun 2022

Data Scientist / Data Analyst

- Created new features and trained models using Gradient Boosting and Deep Learning techniques on million-transaction datasets
- Developed scalable ETL pipelines with Azure Data Factory & Apache Spark integrating SQL Server, Oracle, and Azure Data Lake Built predictive models (XGBoost, Random Forest) and integrated into Power BI dashboards for real-time insights
- Applied clustering, anomaly detection, and association rule learning using Python (pandas, scikit-learn) and R
- Developed Qlik Sense applications improving fraud detection rates by 30% and implemented Agile/Scrum methodology

Key Projects / Involvements

Prevented millions of dollars in state sales tax undercharges by initiating tests that revealed a bug in a new release of shopping cart software. Isolated previously undiscovered flaw in price checking tool resulting in more competitive pricing and a 20 percent increase in revenue. Implemented automated testing tools spawning more diligent levels of regression testing, negative testing, error/bug retests and usability.

Certificates and Awards

React and redux - A complete guide 2020 from Udemy Agile and Scrum Master Certificate from Udacity Best performer award for consistently exceeding the performance Certificate of exceptional bug finder by XYZ client Recognition zero defect delivery

Career Objective

Eager to expand my skill set through external trainings to help boost all major front desk KPIs.

Technical expertise

Python	<div style="width: 100%;"></div>
MLOps	<div style="width: 95%;"></div>
Neo4j	<div style="width: 80%;"></div>
Agent Development	<div style="width: 90%;"></div>

Skills / Exposure

SQL	Dialogueflow	Dataiku
GenAI	RAG	ETL pipelines
jQuery	Redux	Firebase
SQL Server		

Methodology/Approach

Agile methodology	MVC
-------------------	-----

Tools

Git	VS Code	Jira	Bitbucket
Azure Devops	Terraform		

Education

MS - Computer Science	
Southern University and A&M College	Jul 2022 - May 2023
B.Tech - Computer Science	
NMREC	Aug 2015 - May 2019