

# Anmol Garg

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## EXPERIENCE

### EXL Analytics

March 2025 – Present

*AI Data Engineer (FinTech)*

*Mumbai, India*

- Designed and implemented a **Multi-Agent RCA Platform** on Databricks using LangGraph, LangChain, Claude Opus 4.7, and Milvus. Enabled Natural Language-to-SQL (NL2SQL) capabilities over Unity Catalog reconciliation datasets and reduced root cause analysis time from hours to under 5 minutes.
- **RAG/KAG Pipeline** – Built production RAG pipelines using LangChain and open-source LLMs over 1 TB of financial data, improving retrieval speed by 30% while reducing latency by 25%.
- **RAG + MCP Integration**: Engineered hybrid retrieval framework with graph and keyword-based search. Increased operational responsiveness by 40% for stakeholders through accelerated query resolution.
- **Search Optimization**: Implemented SBERT-based semantic ranking, reducing memory usage by 28%. Improved analyst search relevance, increasing successful query resolution by 18%.
- **Deployed Llama 3.3 70B** in production using vLLM's continuous batching to serve 128 concurrent requests, enabling support for 10+ applications.

### Jio Platforms Limited

December 2023 – March 2025

*Data Engineer (Reliance Intelligence)*

*Mumbai, India*

- **Architected** and implemented a high-throughput real-time data ingestion pipeline for **Jio AirFiber** using **Apache Kafka, Apache Spark**, Open Table Formats, Apache Iceberg and Delta Lake, Oracle Database, processing **1.2 billion records per hour** and persisting curated datasets into Delta Lake for analytics, reducing troubleshooting response time by **80%**.
- Designed and implemented a **real-time monitoring and alerting system** using Prometheus and Grafana to track Kafka consumer lag, Spark job health, and pipeline throughput for the AirFiber ingestion pipeline, cutting mean-time-to-detection (MTTD) of failures by **90%** and enabling proactive resolution before SLA breaches.
- Architected and implemented a **metadata-driven data platform** on Databricks and Azure for **Jio Financial Services (JFS)**, using configuration-driven pipelines to standardize ingestion and transformation across **7+** data domains sourced from Oracle Database, FastAPI, cutting ad hoc pipeline development time by 90%.
- **Architecture Optimization and Performance Enhancement (RLS)**: Re-engineered 9 streaming KPIs for the **Reliance Life Science**, optimizing performance during high-load periods. Replaced Redis with HDFS for latest record storage, reducing memory usage by 30% and improving performance by **25%**. Optimized Spark window functions to reduce shuffling by 40%, improving pipeline efficiency. Enhanced data consistency with GG replication of Oracle tables to Hive.
- **End-to-End Migration (S2O)**: Led Synapse to On-Premise migration and optimization of 28 streaming jobs and 13 KPI Spark jobs in the RLS use case. Integrated jobs under a unified driver pulling data from 28 Hive tables, achieving a 25% reduction in processing time and 40% throughput improvement. Utilized Debezium for efficient Change Data Capture/CDC data ingestion from an SFTP/SAP/Kafka server, enabling real-time analytics and dashboarding on Apache Druid.

## ACHIEVEMENTS & CERTIFICATIONS

- **Databricks Certified Data Engineer Professional**– Credential
- **Microsoft Certified: Fabric Data Engineer Associate** – Credential
- **LeetCode**: Achieved an All India Rank of 1,122 (top 0.08%).
- **Codeforces**: Regular participant with a peak rating of 1617, achieving Expert status.
- **Google Kick Start**: Achieved an All India Rank of 471.

## TECHNICAL SKILLS

**Languages**: Python, SQL, HiveQL, Scala, Java, Bash

**Data Engineering**: Apache Spark, Hive, Hadoop, Airflow, Apache NiFi, Databricks, Oracle DB, dbt, Unity Catalog

**AI/LLM**: LangChain, LangGraph, MCP, RAG, Tool Calling, Vector Databases, Prompt Engineering

**Cloud & DevOps**: Azure, AWS, GCP, Kubernetes, Docker, Git, MLflow

## EDUCATION

**Institute of Information Technology, Bhopal**

Bhopal, India

*B.Tech, Electronics Engineering, RGPV (CGPA: 9.0/10.0)*

*July 2019 – June 2023*