

Krishna Joshi

 [krishajoshi14](#)

 [LinkedIn](#)

 krishajoshi.work@gmail.com

 +91 9904267696

 [Portfolio](#)

Professional Summary

Computer Science graduate with 1+ year of experience at A.P. Moller Maersk, building GenAI applications, backend systems, and data solutions. Experienced in developing LLM-powered workflows, RAG systems, APIs, and data pipelines using Python and SQL for analytical and automation use cases.

Technical Skills

GenAI & AI:	LLM Application Development, RAG, LangChain, LangGraph, Embeddings & Vector Search, NLP, Machine Learning
Programming:	Python, SQL, Java, C++
Software Engineering:	FastAPI, React.js, REST APIs, Backend Development, PostgreSQL, SQL Server, Git, Docker
Data Engineering:	PySpark, Apache Kafka, Delta Lake, Databricks, Confluent Schema Registry, Data Pipelines
Cloud & Analytics:	Azure, Power BI, Tableau, Pandas

Work Experience

A.P. Moller Maersk

Bengaluru, India

Associate Data Engineer

Aug 2024 – Present

- Built a GenAI-powered conversational analytics platform enabling business users to investigate operational cost trends, cost drivers, missing costs, and abrupt changes through natural-language queries; reduced turnaround for supported analysis from 1–2 days to approximately 1–2 minutes.
- Designed governed analytical workflows that resolve user intent and business entities before routing requests to domain-specific analysis, combining structured LLM outputs with deterministic business logic and parameterized SQL for traceable results.
- Developed retrieval and backend workflows for grounded responses, including hybrid document retrieval, asynchronous request processing, job tracking, cancellation and timeout handling, structured logging, health checks, and automated testing.
- Engineered an automated financial provision pipeline by translating complex, multi-condition financial calculation rules into production SQL, implementing aging-based calculations, differentiated provision rates, business-area exceptions, and currency-aware aggregation; validated results against the source reporting system and resolved calculation and data discrepancies.
- Modernized Excel/VBA-based finance allocation workflows into a web application managing 600+ allocation rules, implementing metadata-driven configuration, dynamic rule execution, and simulation workflows; also built event-driven ingestion pipelines for Kafka/Avro data into Delta Lake with checkpointed processing.

Personal Projects

PromptEase – Multimodal RAG Chatbot

[GitHub](#)

- Built a multimodal RAG chatbot using Gemini, image-text embeddings, and vector retrieval to answer product-support queries across multiple languages.
- Developed an end-to-end ingestion and retrieval pipeline combining PDF/FAQ parsing, multimodal embeddings, and similarity-based retrieval for grounded responses.
- Evaluated retrieval approaches across product-support use cases and optimized the pipeline for accurate query resolution across multiple product lines.

CropPal – Computer Vision for Crop Monitoring

[GitHub](#)

- Developed a crop identification and growth-stage detection system using CNNs and transfer learning, benchmarking pretrained architectures across 14,000+ images.
- Built and evaluated 6+ pretrained models, optimizing preprocessing, training, and inference across multiple crops and growth stages.
- Achieved 92%+ classification accuracy, demonstrating the effectiveness of transfer learning for automated crop monitoring.

Research Publications

Optimising Multimodal RAG Systems for Multilingual Product Support

IAJIT, Scopus-indexed

Evaluated 5 RAG architectures across 17 configurations for multilingual product support; a ColPali-inspired multimodal approach achieved 94% Top-1 retrieval accuracy.

Malware Detection and Classification Using Machine Learning Techniques: An Implementation Study

IJCDS, CiteScore 2.3, Q3

Developed ML-based detection models for polymorphic URLs and PE malware, achieving 97.85% and 99.4% accuracy respectively using TF-IDF/Logistic Regression and Random Forest, with oversampling techniques used to address class imbalance.

Education

Symbiosis Institute of Technology, Pune

2021 – 2025

B.Tech. Computer Science & Engineering

GPA: 8.60/10

Relevant Coursework: Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, Distributed Systems, Machine Learning, Artificial Intelligence