**Akeel Mohammad**

**AIML Engineer (Gen AI)**

| +971 509857872 | +91 9665097005 | akeel.mohammad3105@gmail.com | [linkedin.com/in/akeel-mohammad-51619519a](https://linkedin.com/in/nimesh-kudkyal) |

**Professional Summary**

# Data Science & MLOps Professional with 5+ years of experience building and deploying machine learning models, automation pipelines, and real-time dashboards, with strong expertise in the **finance, banking and Pharma Retail domain**. Prior 4 years in banking operations provide deep business context for data-driven solutions. Proficient in **Python, Streamlit, MLOps, CI/CD (GitHub Actions, Jenkins), and cloud deployment**, delivering scalable solutions that drive business impact. Open to relocation to Gulf countries.

# **Skills & Technologies**

# Proficient in Data Science, Machine Learning, Generative AI, Natural Language Processing (NLP), Prompt Engineering, and Web Scraping with a deep understanding of multi-modal AI systems.

Hands-on expertise with AI/ML Frameworks like TensorFlow, PyTorch, Scikit-Learn, Transformers, LangChain and building and fine-tuning state-of-the-art models. Model Deployment tools like Streamlit, Flask, Chainlit, Gradio and AWS S3.

Skilled in Data Handling, Data Mining, Cleaning, Visualization, Vector Databases (ChromaDB, FAISS), and building scalable, high-availability pipelines.

Solid Understanding of models using Machine learning and Deep Learning Algorithms. Extensive experience with Generative AI like LLMs (ChatGPT, Gemini), LangChain Agents, Sentence Transformers, Langfuse.

Proficient in designing robust Backend & APIs using FastAPI, Flask, Docker, and cloud deployment on AWS and GCP. Experienced with DevOps & Tools like Docker, GitHub, Postman, Hugging Face, Jenkins, and modern CI/CD practices.

# **Experience**

**System Analyst (AIML Engineer)** Oct 2023 – Present

*NuSummit Mumbai, IN*

* Developed **Resume Ranking System**: Built an ML-based internal resume screening tool using **Python** and **Streamlit** . Internal ML tool replacing vendor license, reducing **screening time by 90%.**
* **RAG-based Chatbot** for SOP/Training Docs: Used **LangChain + Sentence Transformers** to build a secure internal chatbot. Reduced document **search time by 80%**. Accelerated new employee on boarding and reduced training overhead.
* DPT **Transformation Project**: Automated 200+ file transformations. **Reduced processing** from **30 hrs to 90 mins.** Improved accuracy, maintainability, and **reduced manual dependency**.
* Mutual Fund Investor Churn Prediction – End-to-End MLOps Pipeline :

**Impact:** Safeguarded ₹500+ Cr AUM by building an end-to-end MLOps pipeline to predict and reduce mutual fund investor churn.

**Project Brief:** Designed and deployed a scalable MLOps solution for a leading mutual fund company to identify at-risk investors and enable proactive retention strategies. Automated **ETL workflows, model retraining, and CI/CD deployment** using **Prefect, GitHub Actions and Docker**, ensuring production-ready pipelines.

**Key Contributions:**

* Built an **end-to-end MLOps pipeline** for churn prediction, helping retain **15–18% of at-risk investors**.
* Automated **data ingestion, and model retraining** using Prefect, reducing manual monitoring by **40%**.
* Implemented **CI/CD workflows with GitHub Actions** for testing, containerization, and deployment of FastAPI microservices on AWS.

**Data Science Specialist** Oct 2020 – Sept 2023   
*Wellness Forever Pvt Ltd Mumbai, IN*

* Staff KPI Scoring System: Automated performance metrics; reduced **PMS cycle by 70%.** Improved transparency, motivation, and sales.
* Customer Segmentation & Targeted Marketing – RFM Analysis

**Impact:** Improved campaign ROI by **18–20%** by segmenting customers into actionable groups (loyal, at-risk, high-value, dormant) and enabling personalized engagement.

**Project Brief:** Designed and implemented an **RFM-based customer segmentation pipeline** for a retail/e-commerce dataset to identify high-value and at-risk customers. Automated **data preprocessing, segmentation, and visualization dashboards** to empower marketing teams with actionable insights for targeted campaigns.

**Key Contributions:**

Engineered **RFM (Recency, Frequency, Monetary) features** from transaction data to derive customer behavior patterns.

Applied **K-Means and hierarchical clustering** to segment customers into business-relevant groups.

Built interactive **Streamlit dashboards** to visualize customer cohorts and enable drill-down analysis.

Automated ETL, feature extraction, and model retraining using **Prefect**, with **CI/CD pipelines in GitHub Actions** for deployment.

Delivered insights that enabled **personalized campaigns** (loyalty programs, reactivation offers), boosting retention and revenue.

* **Retail Sales Forecasting – Time Series Modeling**

**Impact:** Reduced stockouts by **20%** and optimized inventory holding costs by **15%** through accurate store-level sales predictions.

Project Brief: Developed an end-to-end time series forecasting pipeline for a retail pharmacy chain (200+ stores) to predict daily/weekly sales at SKU and store level. Implemented a **scalable ETL → Prophet Forecasting Model → CI/CD → Deployment → Monitoring** workflow for real-time demand planning**.**

**Key Contributions:**

* Built a Prophet-based forecasting model to predict demand trends across multiple stores and product categories.
* Automated data ingestion, preprocessing, and retraining pipelines using Prefect.
* Integrated Streamlit dashboards for demand visualization, KPI tracking, and forecast vs. actual comparisons.
* Set up CI/CD pipelines with GitHub Actions + Docker for automated testing, containerization, and cloud deployment.
* Deployed monitoring scripts to track forecast accuracy (MAPE, RMSE) and detect demand pattern drift.

**Deputy Branch Manager** Oct 2013 – November 2017 ( Non Tech )

*ICICI Bank Pvt Ltd Satara, IN*

* Managed retail banking operations, staff scheduling, and sales strategy execution
* Conducted customer trust initiatives and improved customer satisfaction
* Handled IAD Audit and Internal Audit, Maintained Branch Compliant Score, Lobby Management

# **Project Highlights (POC’s for Clients @ NuSummit)**

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#### **AI-Powered Document Intelligence System – OCR + NLP for KYC Automation**

**Project Brief:** Built a **document intelligence platform** to streamline customer on boarding for BFSI/KYC operations. Leveraged **OCR + NLP pipelines** to extract structured information from identity proofs, validated fields against customer records, and deployed the solution with CI/CD for production readiness.

#### **Impact:** Automated **extraction and validation of customer identity details** (Name, DOB, ID number) from PAN & Aadhaar, reducing manual KYC effort by **70%** and improving on boarding TAT.

#### **RAG-based Data Assistant**

**Project Brief:** Built RAG pipelines integrating **Gemini-1.5-flash LLM** with both **structured (CSV/Excel, databases)** and **unstructured (PDF reports)** data using LangChain, HuggingFace embeddings, and FAISS/Pinecone.

**Impact:** Reduced manual analysis time by **70%**, improved customer support efficiency, and showcased scalability for enterprise knowledge assistants.

**Tools:** Python, LangChain, HuggingFace, FAISS/Pinecone, Streamlit, Google AI Studio (Gemini).

# Certifications and Awards

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| • Emerging Leader Award - NuSummit | • Bravo Award – Wellness Forever |
| * Information Security Management System (ISMS) * AI Agent Development on Azure   Education | • Introduction to Generative AI – Code -7402907 |
| **International Institute of Information Technology** | Bhubaneswar, IN |

*Post Graduate Diploma in Data Science*

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| **Manipal University** | Bangalore, IN |

*Post Graduate Diploma in Banking and Finance*

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| **Mumbai University** | Mumbai, IN |

*Bachelor of Banking and Insurance*

**SOFT SKILLS**

Analytical Thinking | Effective Communication | Team Leadership | Stakeholder Collaboration