SAI KEERTHI DOMA

GENAI DEVELOPER| ML ENGINEER| DATA ANALYST| PYTHON DEVELOPER

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# SUMMARY

# GenAI Developer with 5 years of experience in GenAI development, AI/ML, Python development, and data analysis. Developed a GenAI-powered assistant at Boeing, utilizing LLMs, Pinecone, and Azure. Also, developed churn prediction models at T-Mobile using AWS SageMaker and Scikit-learn. At Future Retail, focused on demand forecasting and actionable dashboards, while at Swift Logistics, worked on real-time route optimization. At BSNL, developed a system to automate customer detail extraction from emails using spaCy. Experienced in data architecture, modeling, and continuous integration and development (CI/CD).

# TECHNICAL SKILLS

# Programming Languages: Python,SQL,JavaScript Machine Learning & Deep Learning: Scikit-learn,TensorFlow,Keras,PyTorch Data Processing & Analysis: Pandas,NumPy,SciPy,Databrick,Apache Spark Data Visualization: Power BI,Tableau,Matplotlib,Seaborn,Plotly NLP & Text Analytics: NLTK,spaCy,Named Entity Recognition,Sentiment Analysis,Text Classification Large Language Models(LLMs): GPT-4,OpenAI API,LLaMA,Ollama,LangChain Model Deployment: Docker,Flask,FastAPI,AWS Lambda,Streamlit Databases: MySQL,PostgreSQL,MongoDB,Pinecone,ChromaDB,FAISS Cloud Platforms: AWS (SageMaker, S3, Lambda),Google Cloud Platform (BigQuery, AI Platform),Azure ML,Azure Functions,Azure Blob Storage Version Control & DevOps: Git,GitHub,Jenkins ETL & Data Pipeline Tools: Apache NiFi Other Tools & Libraries: Jupyter Notebook,VS Code,Anaconda,Excel (Advanced),Feature Engineering,Dimension Reduction techniques,Hyperparameter Tuning Data Architecture: Data Warehouse,Data Lake,Data Governance Modeling: Statistical Modeling,Machine Learning Modeling CI/CD: Continuous Integration,Continuous Deployment

# PROFESSIONAL EXPERIENCE

**GenAI Developer, Boeing, WA, US JAN 2024 – PRESENT**

. Designed and implemented a GenAI-powered assistant using Retrieval-Augmented Generation (RAG) pipelines, integrating LangChain, Pinecone, and GPT-4 for real-time, aviation-specific query resolution.  
 . Developed a scalable document processing pipeline to extract, clean, and chunk unstructured flight manual data using the Unstructured library, with storage on Azure Blob Storage.  
 . Optimized text embeddings with OpenAI embedding and stored them in Pinecone for high-accuracy vector similarity searches.  
 . Automated data update workflows using Azure Event Grid and Functions, ensuring manual updates were reflected in the system with minimal downtime.  
 . Built a secure and interactive web application with Flask, containerized using Docker, and deployed on Azure App Service, providing a user-friendly interface for global access.

**Jr. Machine Learning Engineer, T-Mobile, WA, US JAN 2023 - AUG 2023**

. Integrated CRM and Hadoop data using Apache NiFi and stored merged data in Amazon S3.  
 . Built and deployed a Random Forest churn model in AWS SageMaker to predict customer churn.  
 . Automated weekly data updates to SageMaker with NiFi for real-time churn prediction.  
 . Monitored model drift with SageMaker Model Monitor to maintain accuracy.  
 . Delivered churn predictions to CRM for targeted retention strategies.

**Data Analyst, Future Retail, India OCT 2020 - DEC 2021**

. Developed a demand forecasting model using the ARIMA algorithm in Python to predict inventory requirements and reduce stockouts.  
 . Consolidated sales, CRM, and inventory data into a unified dataset, enabling accurate analysis of demand patterns.  
 . Preprocessed and cleaned data using Pandas, handling missing values, outliers, and standardizing formats for model readiness.  
 . Created dynamic dashboards in Power BI to visualize inventory trends and support data-driven restocking decisions.

**Python Developer, Swift Logistics, India JAN 2020 - SEP 2020**

4th Job Experience

# ACADEMIC PROJECT

**Interactive AI Restaurant Chatbot with Memory Integration**

Developed an interactive chatbot using LangChain and a Retrieval-Augmented Generation (RAG) pipeline with FAISS and SentenceTransformer embeddings. Implemented web scraping to extract and index data, enabling accurate, context-aware responses. Integrated memory using ChatMessageHistory to maintain session-based continuity in conversations. Deployed via Streamlit for a user-friendly interface, leveraging advanced LLMs for seamless and high-quality interactions.

EDUCATION

**MASTER’S DEGREE, COMPUTER SCIENCE AUG 2022 - DEC 2023**

### Bridgewater State University, MA, US

**CGPA:** 3.83

### Graduate Assistant

Assisted in the instruction of undergraduate computer science courses. Provided academic support, including tutoring and mentoring students in programming and problem-solving