SAI KEERTHI DOMA

GENAI DEVELOPER| ML ENGINEER| DATA ANALYST| PYTHON DEVELOPER

 +1 774-290-4451  [keerthi.doma21@gmail.com](mailto:keerthi.doma21@gmail.com) [My Portfolio](https://keerthi98.my.canva.site/) [My LinkedIn  [My Repository](https://github.com/Keer98)](https://www.linkedin.com/in/sai-keerthi-doma-50a3a0269/)



in

# 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, Streamlit, Pinecone, and Azure. Also, developed churn prediction models at T-Mobile using AWS SageMaker and Scikit-learn. Skilled in prompt engineering, embedding, and Azure Search.

# TECHNICAL SKILLS

# Programming Languages: ['Python', 'SQL', 'JavaScript', 'REACT'] Machine Learning & Deep Learning: ['Scikit-learn', 'TensorFlow', 'Keras', 'PyTorch'] Data Processing & Analysis: ['Pandas', 'NumPy', 'SciPy', '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', 'Cosmos DB'] Cloud Platforms: ['AWS (SageMaker, S3, Lambda)', 'Google Cloud Platform (BigQuery, AI Platform)', 'Azure ML', 'Azure Functions', 'Azure Blob Storage', 'Azure Search', 'App Services', 'API Management'] Version Control & DevOps: ['Git', 'GitHub', 'Jenkins', 'CI/CD'] ETL & Data Pipeline Tools: ['Apache NiFi'] Other Tools & Libraries: ['Jupyter Notebook', 'VS Code', 'Anaconda', 'Excel (Advanced)', 'Feature Engineering', 'Hyperparameter Tuning', 'prompt engineering', 'embedding']

# 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 Streamlit, deployed on Azure App Service, providing a user-friendly interface for global access.  
Implemented effective prompt techniques to reduce token usage and improve output accuracy.  
Integrated disparate structured and unstructured datasets and documents into a vector database for an effective RAG system.

**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**

Built an optimized route planning system using A\* algorithm in Python to reduce delivery time and fuel costs.  
Integrated traffic and weather data from Google Maps API and OpenWeather API with company logistics data.  
Developed a REST API in Flask to deliver real-time route updates to drivers' mobile apps.  
Preprocessed large datasets using Pandas for efficient, accurate route calculations.

# ACADEMIC PROJECT

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