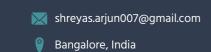# Shreyas Bilikere

Generative AI Engineer

Senior Generative AI Engineer with 12 Years of Experience, including 4+ Years in LLMs, Machine Learning, NLP, and Deep Learning | Skilled Individual Contributor Delivering Impactful AI Solutions and Driving Innovation in Generative AI

✉ shreyas.arjun007@gmail.com

📍 Bangalore, India

📱 9916464703

in linkedin.com/in/shreyas-bilikere-shantharaju-03671615b

WORK EXPERIENCE

Senior AI Engineer
Cloud4c Services Pvt Ltd

05/2020 - Present   *Bangalore*

Designed and deployed generative AI solutions using advanced models like GPT-4, GPT-4o,Llama 3, 3.1, 3.2, and GeMMa 2, Mistral to create innovative applications across various domains.

Senior Data Scientist
Wipro Technologies

05/2018 - 05/2020   *Bangalore*

Developed and deployed machine learning & NLP models and POC project such as Random forest, KNN, Decision tree, clustering, linear regression, ANN, RNN, LSTM, Word2vec, confusion metrics, f1, recall,Principal component analysis

Python Developer
CenturyLink India Pvt Ltd

01/2016 - 04/2018   *Bangalore*

Built and deployed scalable applications as a Python developer, focusing on performance and reliability. Deployments using AWS

Automation Tester
TATA Consultancy Services Ltd

12/2012 - 12/2015   *Hyderabad*

Automated testing with Java, integrated CI/CD, designed test cases, and managed defect reporting.

SKILLS

AI · Airflow · Artificial Intelligence · AWS · AWS Bedrock · CICD · Data Engineering · Deep Learning · Docker · FastAPI · filebeat · Fine Tuning · Flask · GENAI · huggingface · Jenkins · Kafka · Kubernetes · Langchain · Large language model · LLM · Machine Learning · Neo4j · NLP · ollama · Python · Statistics · TensorFlow · Transformer

PROJECTS

Advanced RAG Pipeline for SOP Interaction with Hybrid Search and Intelligent Generation

- **Implemented an end-to-end Retrieval-Augmented Generation (RAG) pipeline** to enable intelligent interaction with Standard Operating Procedure (SOP) documents.
- **Extracted and semantically chunked data** from PDFs using Fitz, Tabula, and OCR, ensuring comprehensive data processing.
- **Developed a hybrid search mechanism** leveraging OpenAI embeddings in Pinecone for dense vectors and BM25 in ElasticSearch for sparse vector retrieval.
- **Enhanced response generation and accuracy** with Cohere AI-based reranking and GPT-4 integration for dynamic and context-aware interactions.

Dynamic Text-to-SQL System with Adaptive Few-Shot Retrieval and Schema-Aware Query Generation

- **Designed and implemented a robust Text-to-SQL system** enabling seamless and natural interaction with MySQL databases.
- **Integrated OpenAI embeddings and a Pinecone vector database** to dynamically fetch relevant table schemas and few-shot examples for enhanced query accuracy.
- **Utilized GPT-4 for SQL query generation and validation**, ensuring precise execution and adaptability to database schema changes.

Aspect-Based Sentiment Analysis with LLM Prompt Engineering and Workflow Automation

- **Implemented an aspect-based sentiment analysis system** leveraging advanced LLM prompt engineering for accurate sentiment extraction and parameter identification from email interactions.
- **Integrated Exchange Team Email Parser API** for seamless email ingestion, along with Python-based preprocessing and MongoDB for storing enriched email data.
- **Designed a robust pipeline** to store sentiment analysis results in PostgreSQL, with automated workflows for negative sentiment notifications and ticket creation.
- **Enhanced accuracy and contextual understanding** through advanced LLM prompt engineering, forming the core of the system's effectiveness.

CERTIFICATES

AWS cloud practitioner

EDUCATION

Bachelor Of Engineering[BE]
Bangalore Institute of Technology

07/2009 - 07/2012   *Bangalore*