**Resume Headline:**

**Generative AI Engineer**

Senior Generative AI Engineer with 12+ Years of Experience, including 3+ Years in Machine Learning, NLP, Deep Learning, and LLMs | Skilled Individual Contributor Delivering Impactful AI Solutions and Driving Innovation in Generative AI

Email id: [Shreyas.arjun007@gmail.com](mailto:Shreyas.arjun007@gmail.com)

Ph: 9916464703

Bangalore India

[www.linkedin.com/in/shreyas-bilikere-shantharaju-03671615b](http://www.linkedin.com/in/shreyas-bilikere-shantharaju-03671615b)

Work Experience:

|  |  |  |
| --- | --- | --- |
| **Company Name** | **Designation** | **Period** |
| Cloud4c Services Pvt Ltd | Technical Lead | May 2020 – Till Now |
| Wipro Technologies | Senior Software Engineer | May 2018-May 2020 |
| CenturyLink India Pvt Ltd | Systems Engineer | January 2016 – April 2018 |
| TATA Consultancy Services Ltd | Systems Engineer | December 2012 – December 2015 |

Education Summary:

|  |  |  |
| --- | --- | --- |
| **College** | **Qualification** | **Subject** |
| BIT, Bangalore (VTU University), Karnataka | Bachelor Of Engineering (B.E) | Electronics & Communication (ECE) |

Skills one words:

1. LLM
2. GENAI
3. Machine learning
4. NLP
5. Deep learning
6. RAG
7. Text to SQL
8. AWS
9. Flask
10. SQL
11. Python
12. Langchain
13. Airflow
14. CICD
15. Prompting
16. NLP

**Project1:**

**Project Title:**  
**"Advanced RAG Pipeline for SOP Interaction with Hybrid Search and Intelligent Generation"**

**Project Description:**  
Implemented an end-to-end Retrieval-Augmented Generation (RAG) pipeline for interacting with Standard Operating Procedure (SOP) documents. Extracted data from PDFs using Fitz, Tabula, and OCR, followed by semantic chunking. Utilized OpenAI embeddings for dense vectors stored in Pinecone DB and BM25 for sparse vectors stored in ElasticSearch. Designed a robust retriever incorporating hybrid search and reranking with Cohere AI, paired with GPT-4 for dynamic response generation, enabling accurate and intelligent interaction.

Project2:

**Project Title:**  
**"Dynamic Text-to-SQL System with Adaptive Few-Shot Retrieval and Schema-Aware Query Generation"**

**Project Description:**  
Designed and implemented a robust Text-to-SQL system enabling seamless interaction with MySQL databases. The architecture incorporates a dynamic question refinement technique using an LLM, with OpenAI embeddings to fetch relevant table schemas and few-shot examples stored in a Pinecone vector database. It employs GPT-4 for SQL query generation and validation, ensuring accurate query execution and schema adaptability. The system converts SQL query results into natural language answers, offering a user-friendly interface for database interaction.

Project3:

**Project Title:**  
**"Aspect-Based Sentiment Analysis with LLM Prompt Engineering and Workflow Automation"**

**Project Description:**  
Implemented an aspect-based sentiment analysis system leveraging advanced LLM prompt engineering for precise sentiment extraction and parameter identification from email interactions. The pipeline integrates Exchange Team Email Parser API for email ingestion, Python scripts for cleaning and preprocessing, and MongoDB for storing enriched email data. Sentiment analysis results are stored in PostgreSQL, with negative sentiments triggering automated email notifications and ticket creation workflows. Robust prompt engineering ensures the accuracy and contextual understanding of LLM calls, forming the core of the solution's effectiveness.