

Implementation of an Agentic RAG Framework for Comparative Analysis of Classical Islamic Corpora

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GitHub: <https://github.com/shafaeihossin-hub/Classical-Shia-AI-RAG>

Abstract—This research introduces a localized Retrieval-Augmented Generation (RAG) system specialized for theological discourse. Using an Agentic Query Expansion mechanism with DeepSeek-R1, we developed a system capable of cross-referencing the Holy Quran, Al-Kafi, Nahj al-Balagha, and Musnad Ahmad ibn Hanbal. The architecture ensures data privacy via Docker and Qdrant.

I. INTRODUCTION

Navigating classical theological texts requires high precision. Traditional LLMs often suffer from hallucination. This project implements a private RAG pipeline to ensure strict adherence to verified local contexts.

II. SYSTEM ARCHITECTURE

A. Infrastructure and Storage

The vector storage is handled by Qdrant, running within a Docker container to ensure environment isolation.

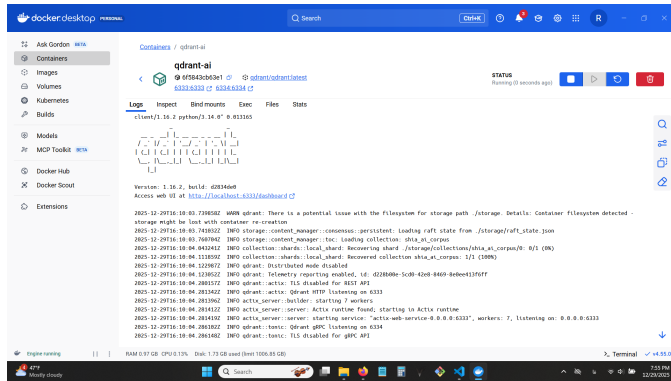


Fig. 1. Containerized Qdrant-AI environment in Docker.

B. Agentic Search Logic

The system uses an "Agentic" approach, generating additional search keywords to improve retrieval hit rate before querying the database.

III. IMPLEMENTATION DETAILS

Listing 1 demonstrates the core logic for query expansion and the RAG loop.

```
1 def get_smart_queries(user_question):
2     prompt = f"Generate 2 short search keywords in Persian related to: {
3         user_question}."
4     res = ollama.generate(model=MODEL_NAME, prompt=prompt)
5     keywords = res['response'].strip().split(',')
6     return [user_question] + [k.strip() for k in keywords]
7
8 def shia_ai_rag_query(user_question: str):
9     queries = get_smart_queries(user_question)
10    combined_context = ""
11    for q in queries:
12        combined_context += query_database(q) + "\n---\n"
```

Listing 1. Agentic Query Expansion Logic

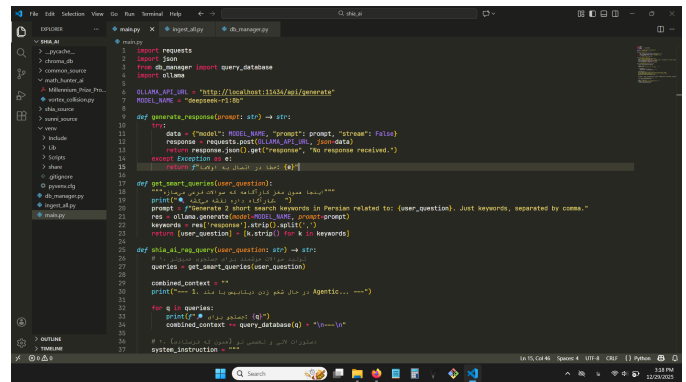


Fig. 2. Implementation of the RAG pipeline in VS Code.

IV. PROJECT MANAGEMENT

The project is open-sourced under the MIT License and hosted on GitHub.

V. CONCLUSION

This study validates that Small Language Models (SLMs) can achieve professional-grade performance in specialized fields when paired with intelligent retrieval mechanisms.

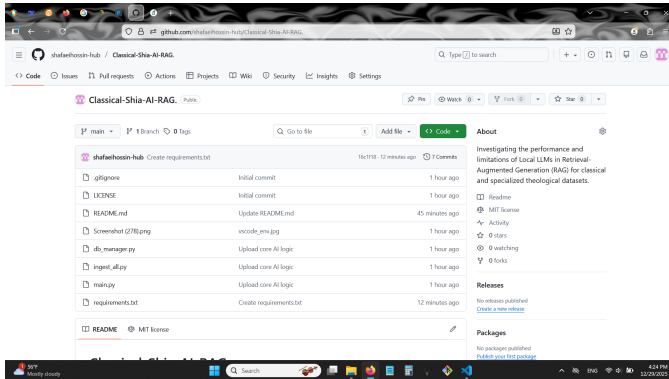


Fig. 3. Project structure and version control on GitHub.

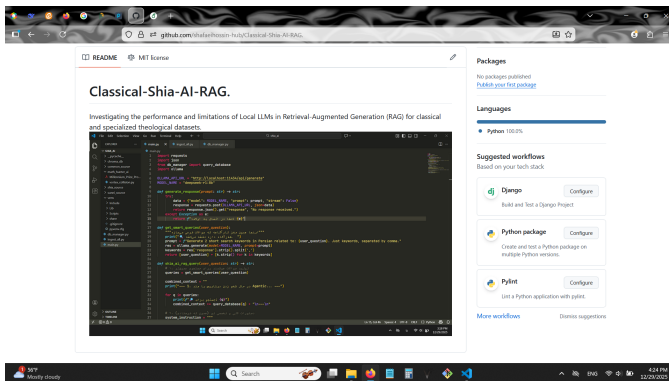


Fig. 4. Project Documentation and README details.