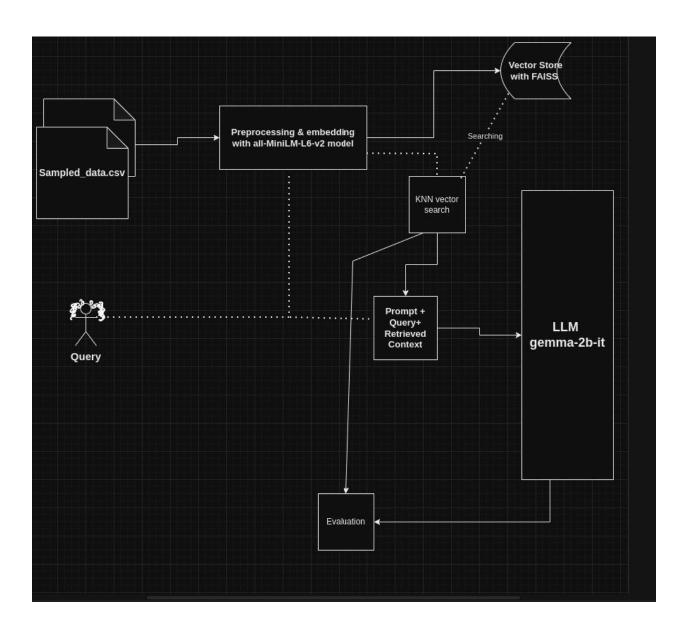
Implementing RAG to Generate Career Advice &

Recommendations



The Script:

consists of a class RAG_Implementation() which by turn consists of the following methods;

- data_preparation(): reads, preprocesses, and embeds the data
- Retrieval componenet(): makes the store vectors
- Vector_search(); takes the user job embeds it, search for the k nearest jobs, retrieve them
 back
- generation component():generates the output based on the context, prompt, and query.
- evaluation(): calculates ROUGE, BLEU, and BERTscores

The notebook contains the same without the class structure, moreover it contains multiple outputs I have generated before and their associated scores.

The prompt cell contains comments where I mentioned other prompts that generated good responses

What to Improve?

- The output can be further improved by changing the prompt a bit, or/and by increasing k, yet my already-limited resources for some reason became even more limited later.
- A post-processing module is needed.
- Fine-tuning the model
- The scores needs improvement and are done between the context, and the response, the prompt-query-context combinations needs to be taken onto account