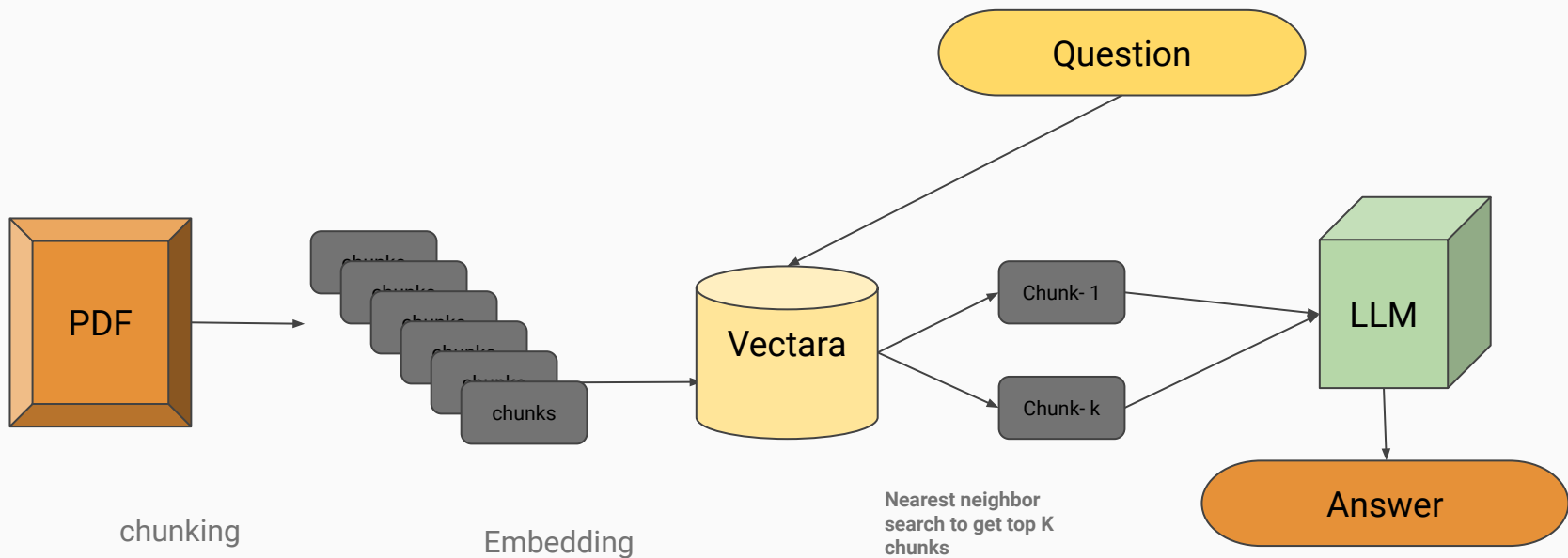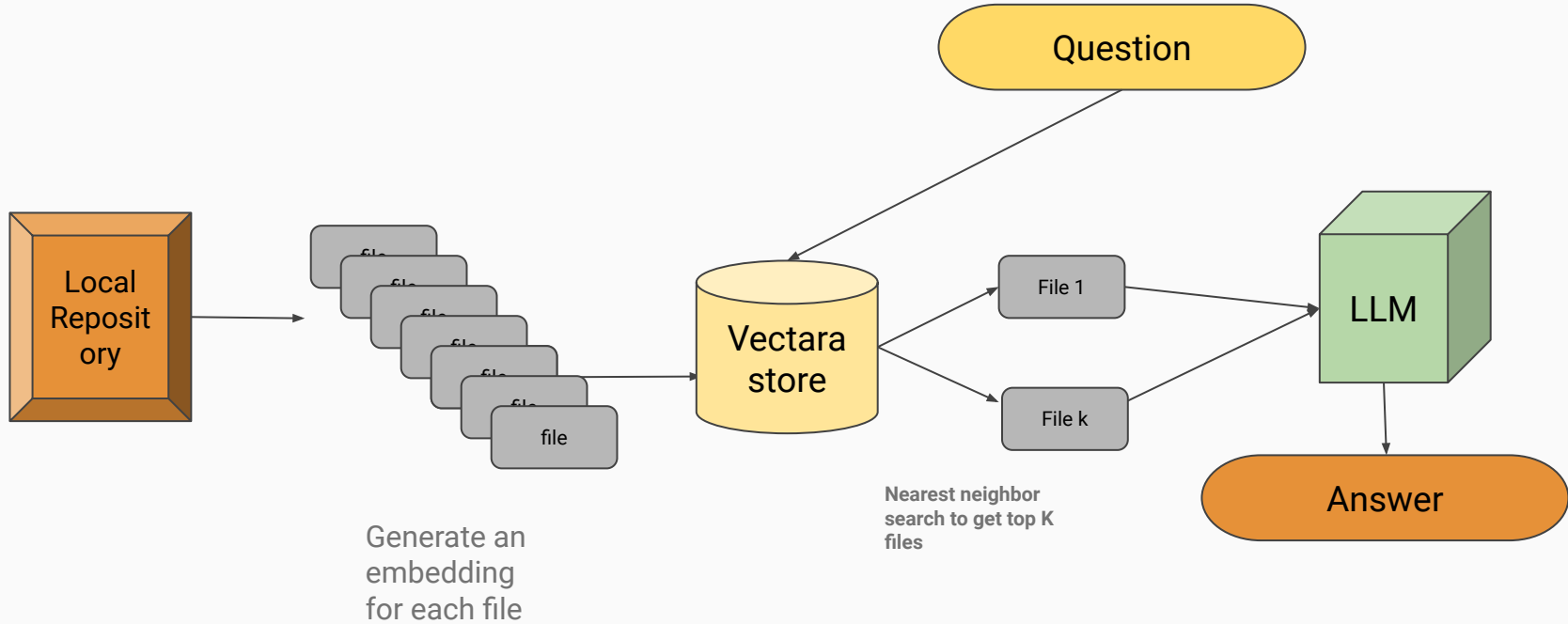# Problem

- Imagine you are trying to contribute to a **new code base** (a github repository) for a beginner task.
- Knowing **which** file to change, **where** to make the change can be time consuming.
- This is **NOT** about **CODE COMPLETION.**
- **https://github.com/Raghavan1988/llama_index_buddy/tree/main**

Talk to your PDF (Typical RAG)

Question

PDF

chunks

Vectara

Chunk- 1

Chunk- k

LLM

Answer

chunking

Embedding

Nearest neighbor
search to get top K
chunks

Talk to your Code

Llama index quick example

Code: https://github.com/Raghavan1988/llama_index_buddy

Llama index + vectara

requires open AI KEY (so not open source)

Local GPT - "which files should I change to add support for Falcon 180 B model"

$ python3 llama_index_buddy.py localGPT "which files should i change to add support for Falcon 180B model ? "

/Users/rmuthure/Library/Python/3.9/lib/python/site-packages/urllib3/__init__.py:34: NotOpenSSLWarning: urllib3 v2.0 only supports OpenSSL 1.1.1+, currently the 'ssl' module is compiled with 'LibreSSL 2.8.3'. See: https://github.com/urllib3/urllib3/issues/3020
  warnings.warn(

To add support for the Falcon 180B model, you should change the `**MODEL_ID**` and `**MODEL_BASENAME**` in the `**constants.py**` file. Set the `MODEL_ID` to the appropriate identifier for the Falcon 180B model and set the `MODEL_BASENAME` accordingly based on the guidelines provided for selecting different LLM models.

screenshot

```
rmuthure-mn1:~ rmuthure$ python3 llama_index_buddy.py localGPT "which files should i change to add support for Falcon 180B  model ? "
/Users/rmuthure/Library/Python/3.9/lib/python/site-packages/urllib3/__init__.py:34: NotOpenSSLWarning: urllib3 v2.0 only supports OpenSSL 1.1.1+, currently
the 'ssl' module is compiled with 'LibreSSL 2.8.3'. See: https://github.com/urllib3/urllib3/issues/3020
  warnings.warn(
To add support for the Falcon 180B model, you should change the `MODEL_ID` and `MODEL_BASENAME` in the `constants.py` file. Set the `MODEL_ID` to the approp
riate identifier for the Falcon 180B model and set the `MODEL_BASENAME` accordingly based on the guidelines provided for selecting different LLM models.
```

Business impact

- Developers would have enhanced productivity and be willing to buy this RAG application
- Code completion tools do not tell where to make the changes on an existing code base.