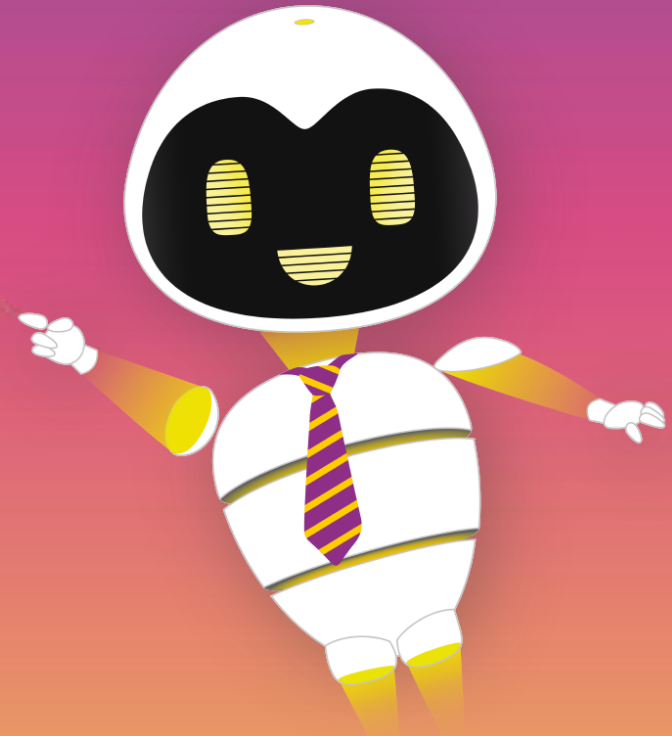




PI DATA STRATEGY & CONSULTING

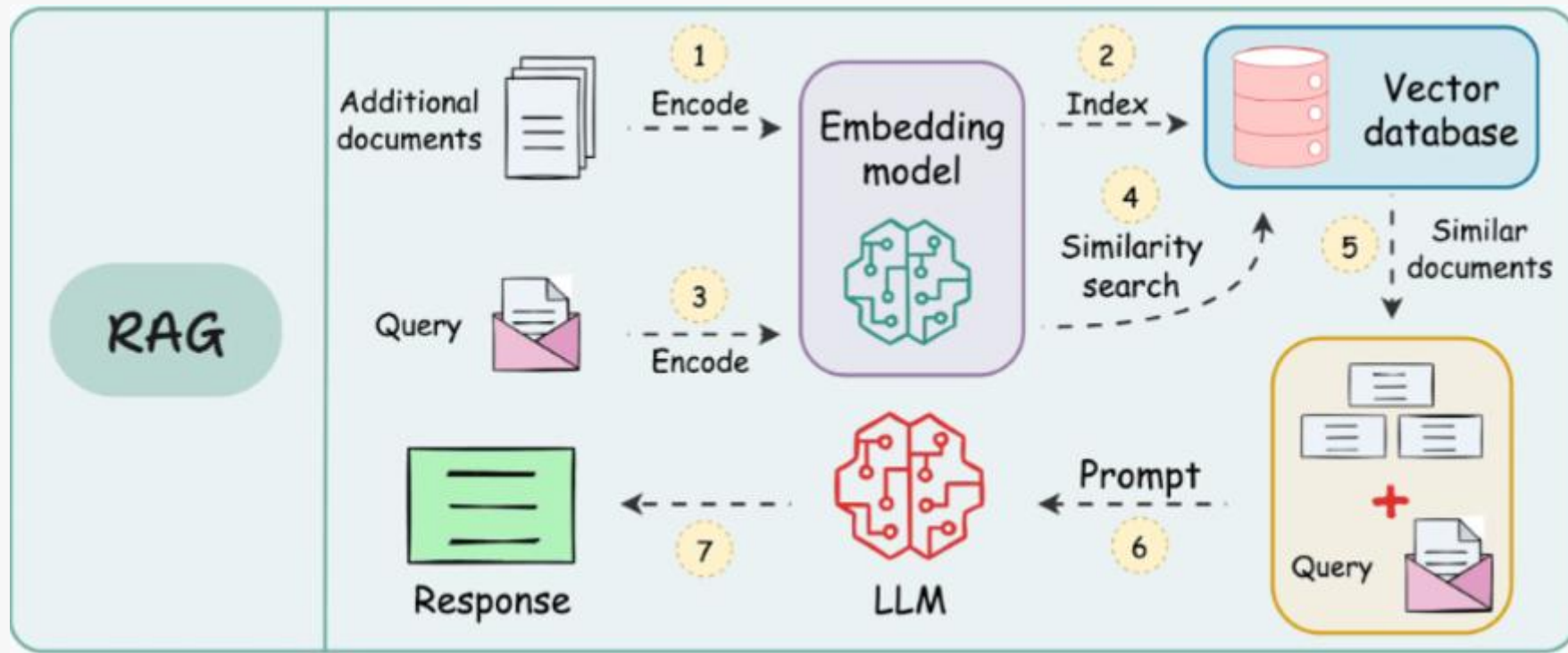
get Talent

AI EDITION

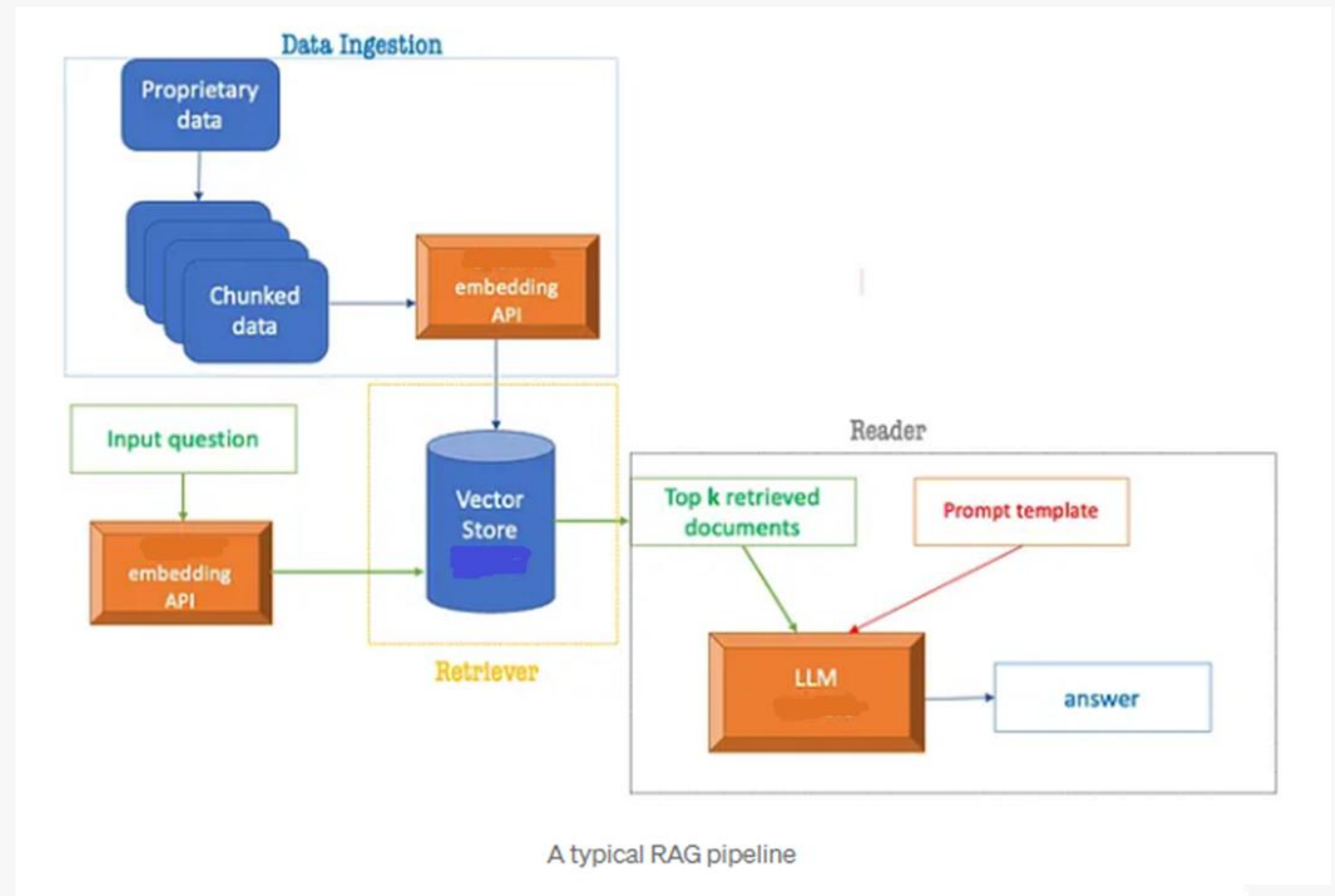


RAG

RAG (Retrieval-Augmented Generation) es un enfoque en inteligencia artificial donde un modelo generativo utiliza información recuperada de una base de datos o documentos externos para mejorar la precisión y relevancia de sus respuestas.

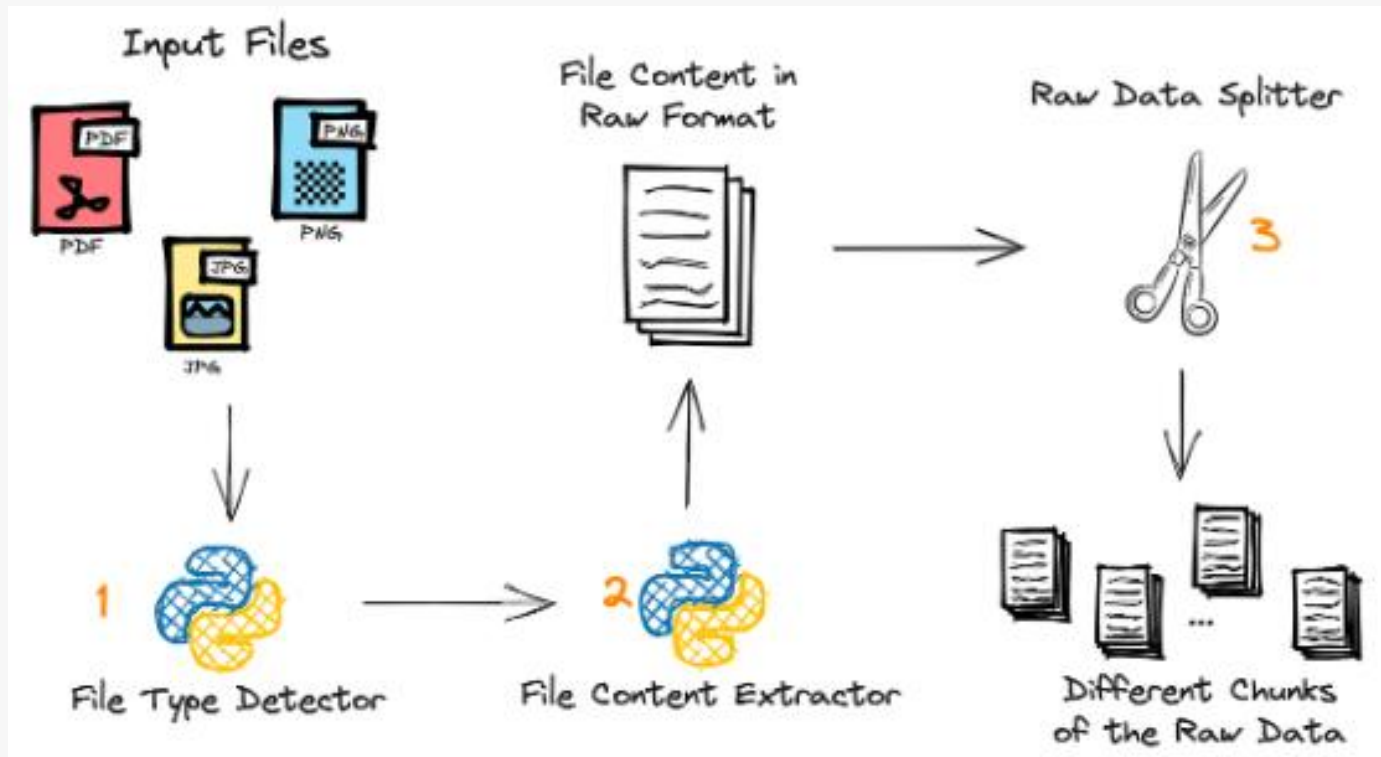


- 1- Data Ingestion
- 2- Retriever
- 3- Reader (generation)



1- Data Ingestion





- <https://www.geeksforgeeks.org/working-with-pdf-files-in-python/>



Chunking

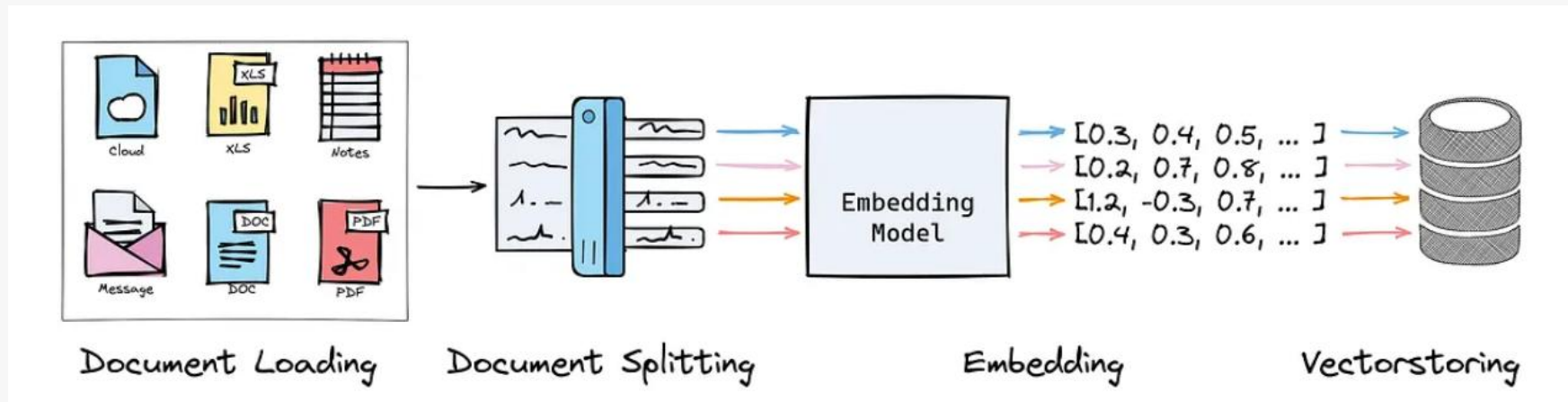
```
text_splitter = RecursiveCharacterTextSplitter(  
    chunk_size = 100,  
    chunk_overlap = 0,  
    length_function = len,  
)
```

```
What I Worked On  
  
February 2021  
  
Before college the two main things I worked on, outside of school, were writing and programming. I didn't write essays. I wrote what beginning writers were supposed to write then, and probably still are: short stories. My stories were awful. They had hardly any plot, just characters with strong feelings, which I imagined made them deep.  
  
The first programs I tried writing were on the IBM 1401 that our school district used for what was then called "data processing." This was in 9th grade, so I was 13 or 14. The school district's 1401 happened to be in the basement of our junior high school, and my friend Rich Draves and I got permission to use it. It was like a mini Bond villain's lair down there, with all these alien-looking machines — CPU, disk drives, printer, card reader — sitting up on a raised floor under bright fluorescent lights.
```

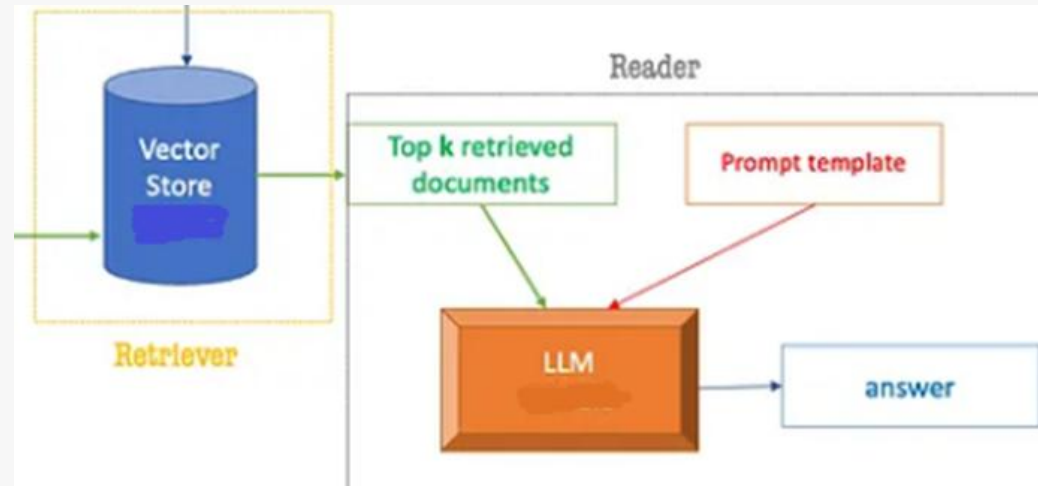
- <https://chunkviz.up.railway.app/#explanation>
- <https://dev.to/eteimz/understanding-langchains-recursivecharactertextsplitter-2846>
- https://python.langchain.com/docs/concepts/text_splitters/
- <https://www.pinecone.io/learn/chunking-strategies/>



2- Retriever



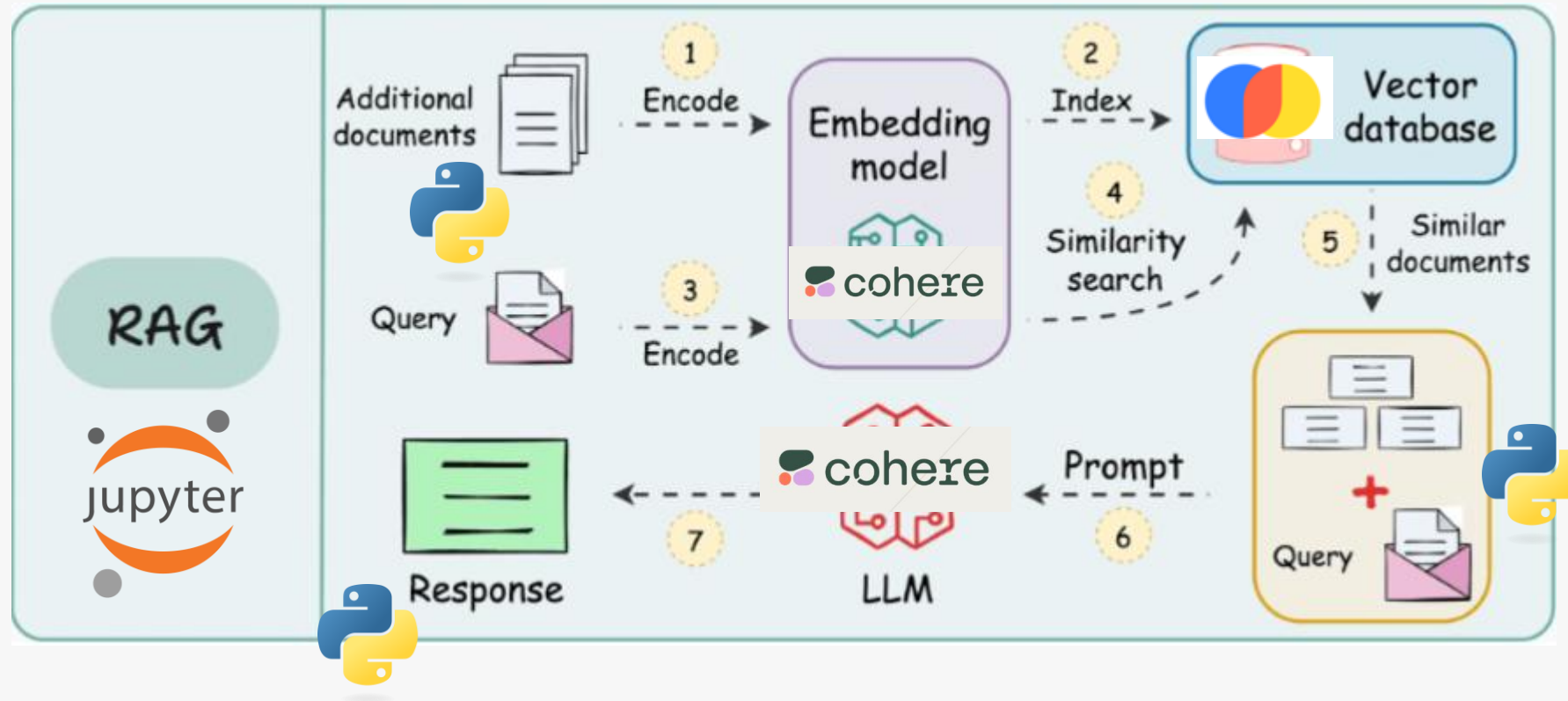
3- Reader (generation)



```
prompt_template = """Usa el siguiente contexto para responder la pregunta.  
  
    {context}  
  
    Pregunta: {question}  
    """
```



Challenge:



Muchas gracias.