Full-Stack Software Engineer Internship at Dextego

Anja Simić

About me

SLU class of 2025

Major: Computer Science

Minor: Mathematics

Hometown: Niš, Serbia

About Dextego

Start-up founded in 2023

Based in New York, New York

"Dextego is an **Autonomous Sales Coaching Platform** that ingests data from the best sales experts in the world, combining it with your business's unique knowledge, making it the **most accurate, real-time coaching available**."

What I did

- Researched & tested various database solutions to identify the best fitting and cost-effective option for Dextego
- Developed a chatbot solution using Retrieval-Augmented Generation, integrating OpenAI APIs for optimized performance and advanced language understanding
- Contributed to designing and refining the project architecture

Technology I worked with

Databases: PineconeDB, MongoDB, AlloyDB, Big Query

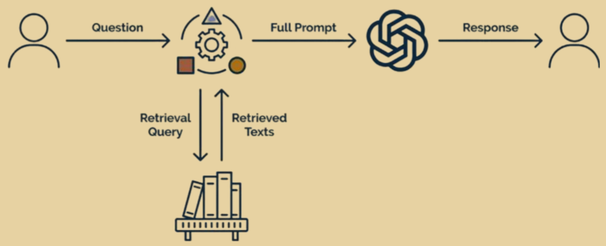
Developer Tools: GitHub, Google Cloud Platform, OpenAI, Gemini, Thunder Client

Programming Languages and Frameworks: Python, Flask, LangChain

LLM Refining

- Text Chunking - Breaking down large text into smaller, manageable segments for better processing by language models
- Temperature Parameter - Controls the creativity or randomness of the model's responses, allowing for more predictable or diverse outputs

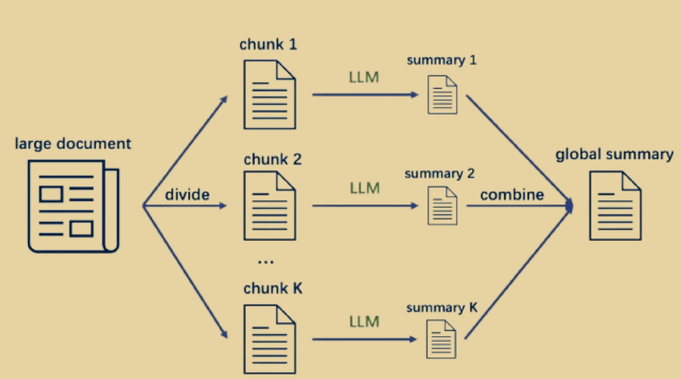
What is Retrieval-Augmented Generation (RAG)?



"**Retrieval-Augmented Generation** (RAG) is the process of optimizing the output of a large language model (LLM), so it references an authoritative knowledge base outside of its training data sources before generating a response."

Simple terms: RAG is the process of **feeding** the already existing **LLM** with **data relevant to your conversation/research**.

Example: Giving an LLM a PDF of your book and asking it questions about the material.



What I got from this experience

1. Gained experience in researching and evaluating various database solutions, which involves understanding different database architectures, performance metrics, and cost implications.
2. Developed expertise in implementing Retrieval-Augmented Generation (RAG) techniques and integrating APIs like OpenAI's to enhance chatbot performance.
3. Working closely with the CTO and being part of key decisions gave me a clear view of how tech and business come together. It helped me build leadership skills and understand the bigger picture of product development. This experience taught me how to align my technical work with company goals and tackle complex problems in a way that drives real impact.