

AI Boot Camp

RAG Model Using Llam 3

Project 3



Agenda

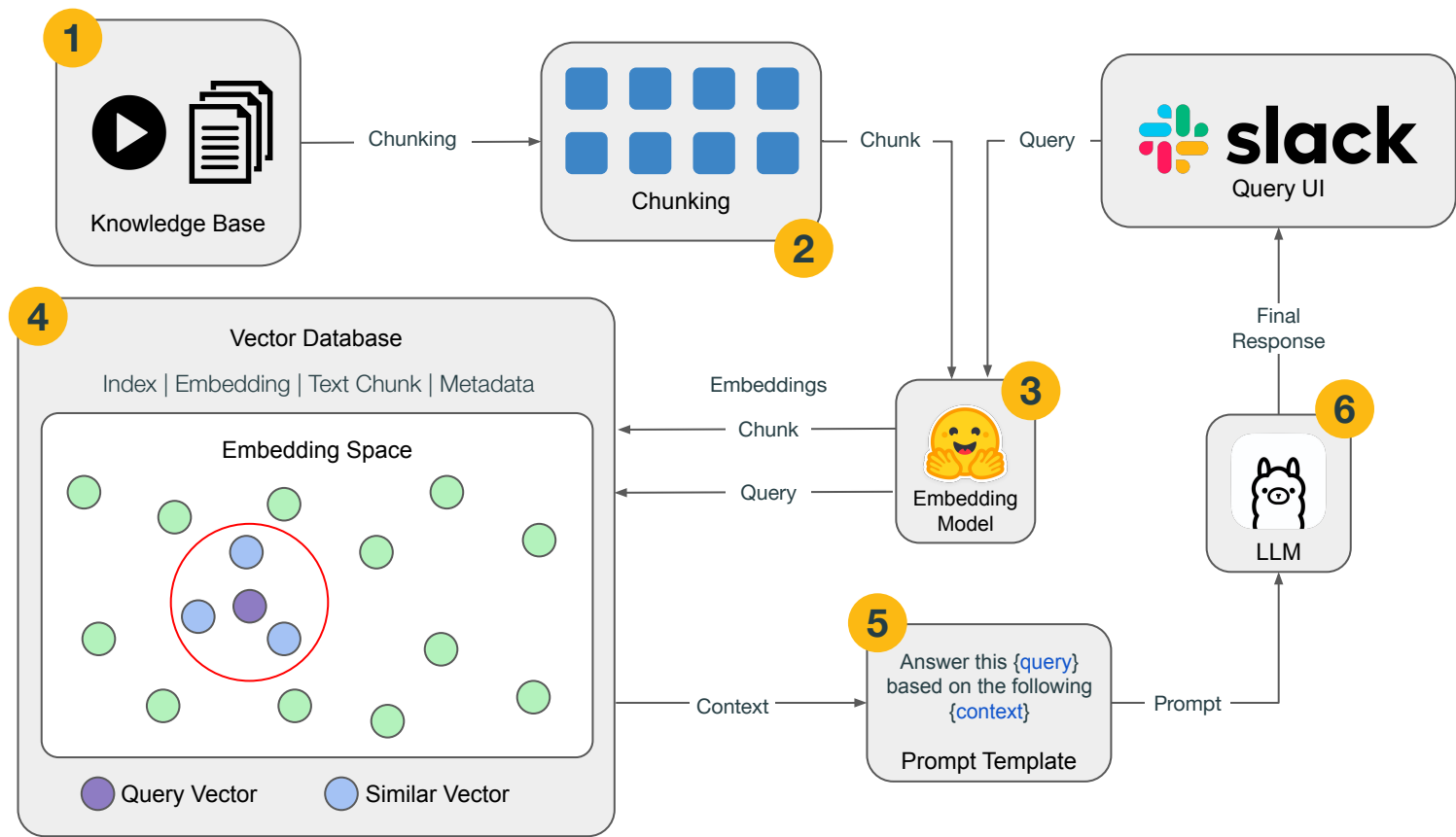
By the end of the presentation, you will know:

- 1 High-level Project Goals
- 2 Architectural Overview of the Project
- 3 How the Data was Gathered and Organized
- 4 A Demo of the Application

















Create a **Retrieval-Augmented Generation** (RAG) application that can take in various data sources and **answer questions** related to the inputted data

















Architectural Overview of RAG

















How the Data was Gathered & Organized

< > Class_Recordings	
Name	
	Data_Ethics_I.mp4
	Data_Ethics_II.mp4
	Deep_Learning_I.mp4
	Deep_Learning_II.mp4
	Deep_Learning_III.mp4
	Emerging_Topics_in_AI_I.mp4
	Emerging_Topics_in_AI_II.mp4
	Exploring_Data_Through_Visualizations_I.mp4
	Exploring_Data_Through_Visualizations_II.mp4
	Exploring_Data_Through_Visualizations_III.mp4
	Introduction_to_AI_I.mp4
	Introduction_to_AI_II.mp4
	Introduction_to_AI_III.mp4
	Machine_Learning_Optimization_I.mp4

Video to
Text.py

< > Class_TXT	
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	Data_Ethics_II.txt
	Deep_Learning_I.txt
	Deep_Learning_II.txt
	Deep_Learning_III.txt
	Emerging_Topics_in_AI_I.txt
	Emerging_Topics_in_AI_II.txt
	Exploring_Data_Through_Visualizations_I.txt
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	Exploring_Data_Through_Visualizations_III.txt
	Introduction_to_AI_I.txt
	Introduction_to_AI_II.txt
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	Introduction_to_AI_III.txt
	Machine_Learning_Optimization_I.txt
	Machine_Learning_Optimization_II.txt

< > Class_PDF	
Name	
	M1.1_ Overview of AI and Machine Learning.pdf
	M1.2_ The Impact of Machine Learning.pdf
	M1.3_ Overview of Machine Learning Tools.pdf
	M2.1_ Programming Basics.pdf
	M2.2_ Programming Decisions.pdf
	M2.3_ Complex Programming Decisions.pdf
	M3.1_ Programming with Functions — Part 1.pdf
	M3.2_ Programming with Functions — Part 2.pdf
	M3.3_ Python Classes and OOP.pdf
	M4.1_ Introduction to Pandas.pdf
	M4.2_ Exploring Data with Pandas.pdf
	M4.3_ Transforming Data with Pandas.pdf
	M5.1_ Combining DataFrames with Pandas.pdf
	M5.2_ Grouping, Aggregating, and Binning Data with Pandas.pdf



Chroma



Live **Demonstration**



Questions?





Thank You