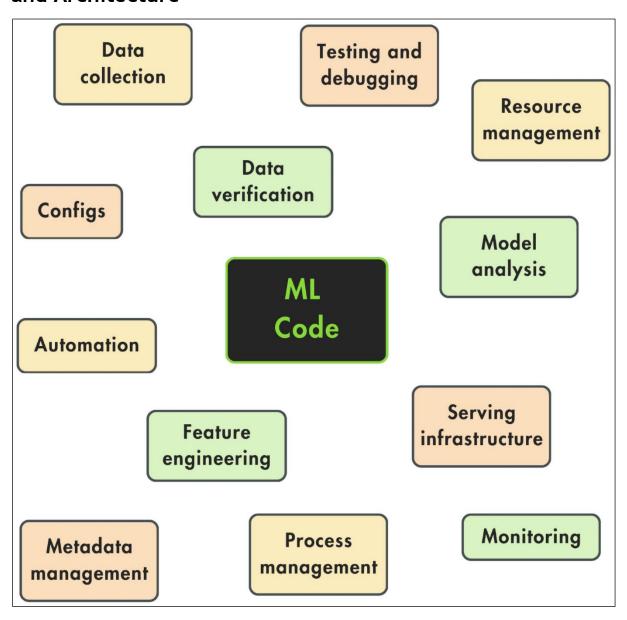
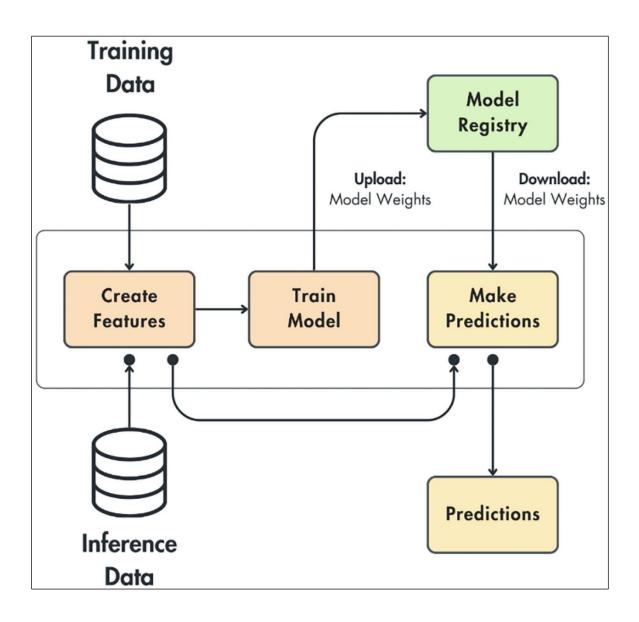
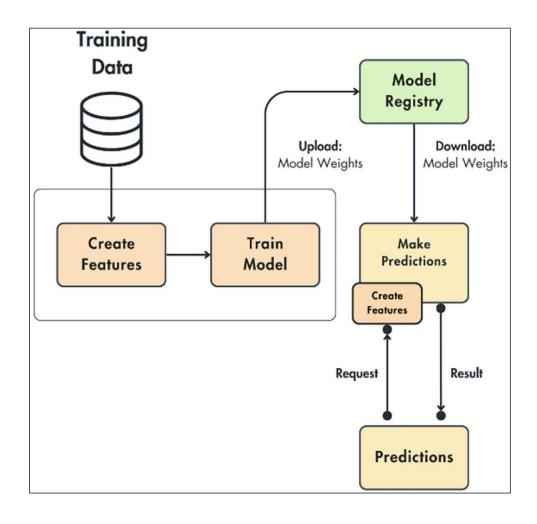
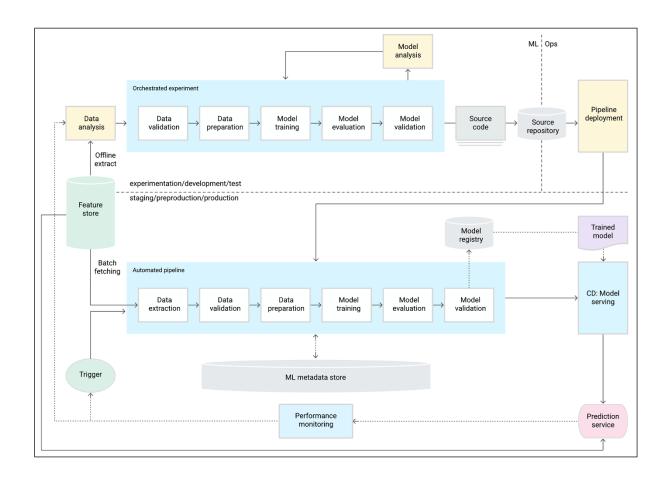
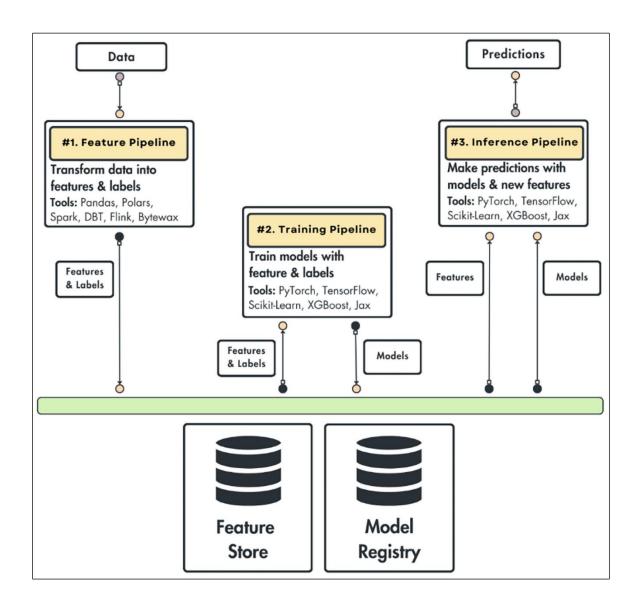
Chapter 1: Understanding the LLM Twin Concept and Architecture

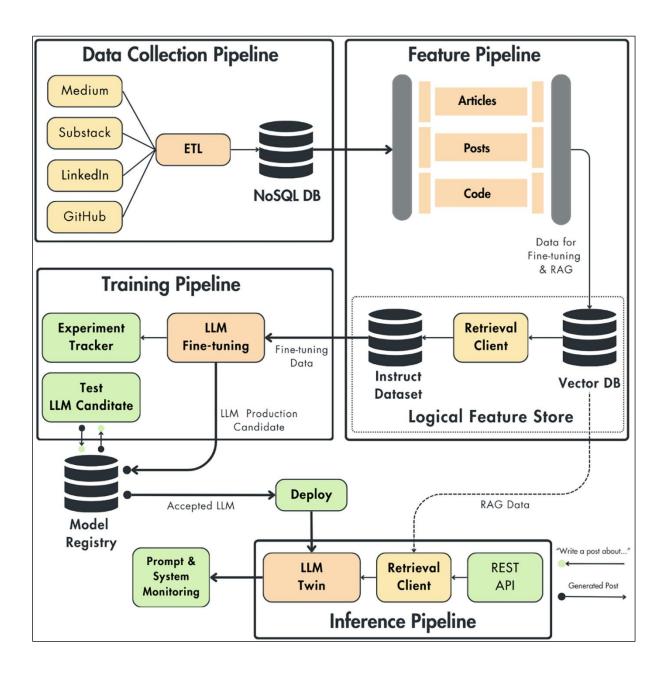




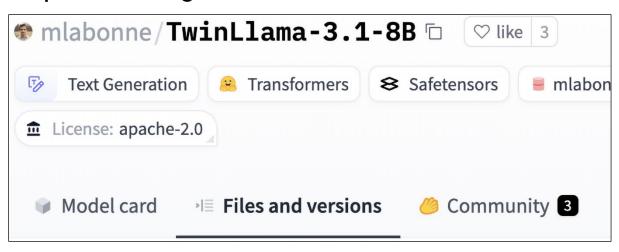


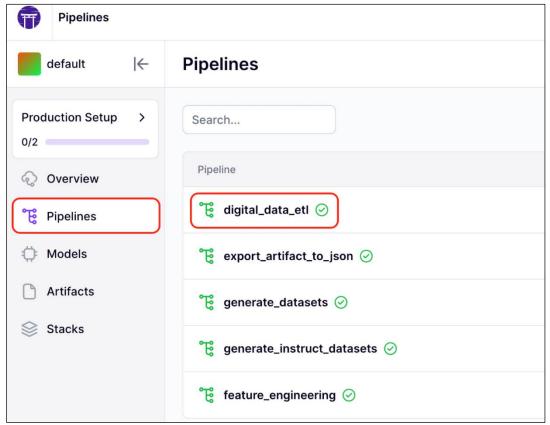




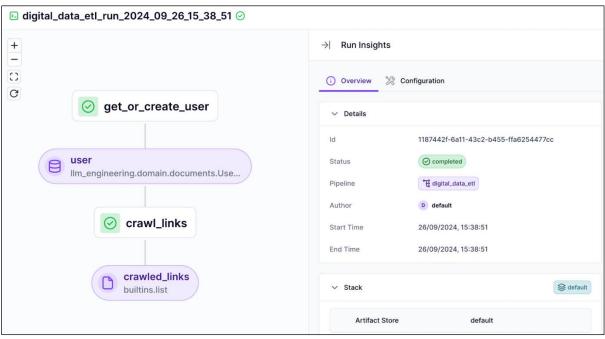


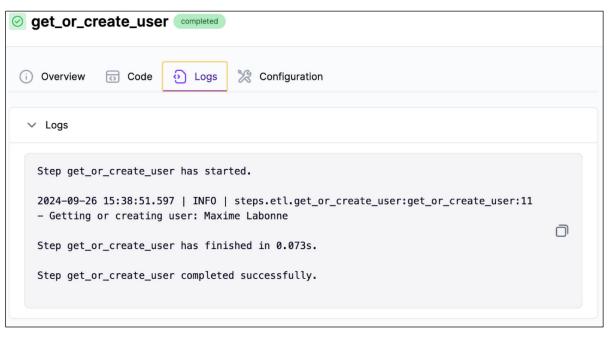
Chapter 2: Tooling and Installation

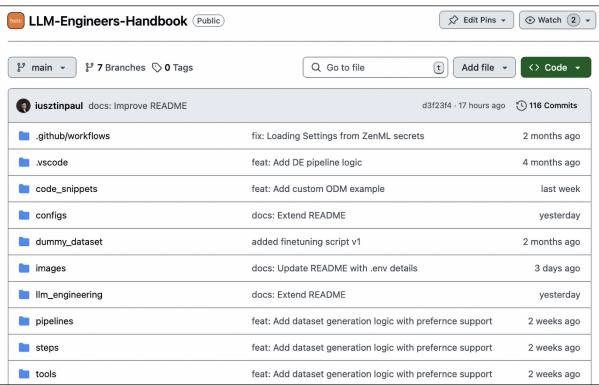


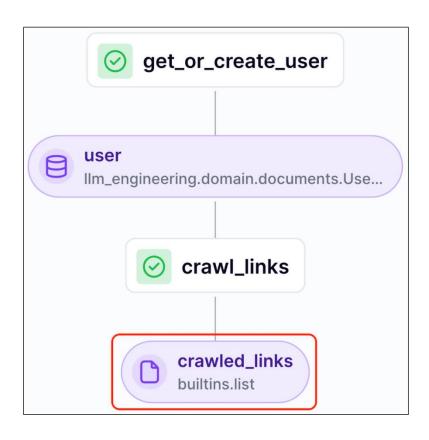




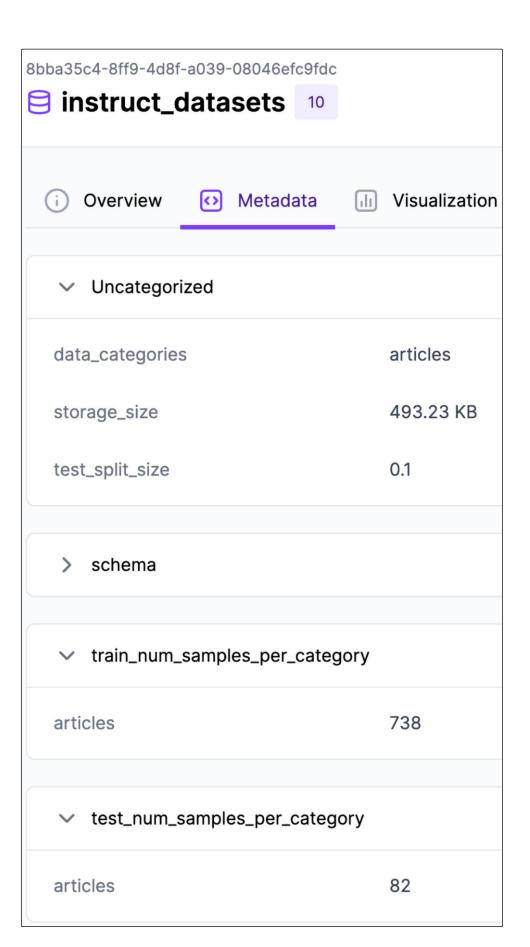




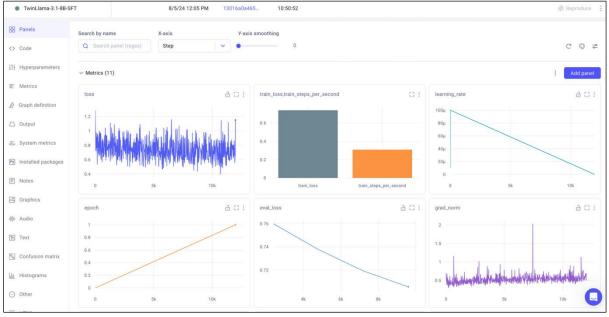




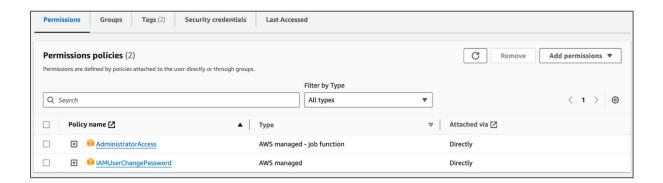
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crawled_links 8	
i Overview Metadata	Visualization
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mlabonne.github.io	
successful	2
total	2
maximelabonne.substack.com	
successful	24
total	24



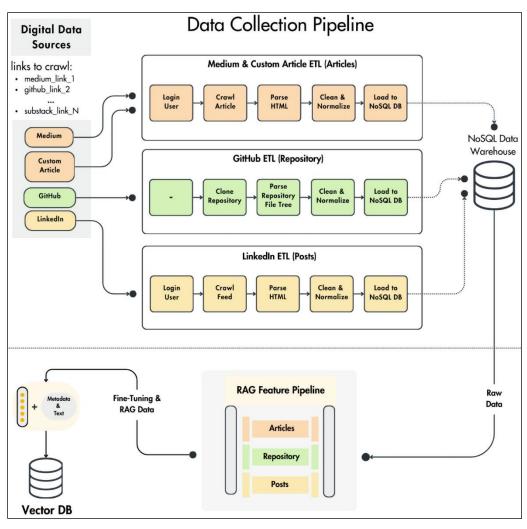
LLM-Engineering / configs / 🕒	
iusztinpaul feat: Add dataset generation	
Name	
.	
digital_data_etl_alex_vesa.yaml	
digital_data_etl_maxime_labonne.yaml	
digital_data_etl_paul_iusztin.yaml	
end_to_end_data.yaml	
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feature_engineering.yaml	
generate_instruct_datasets.yaml	
generate_preference_datasets.yaml	
† training.yaml	

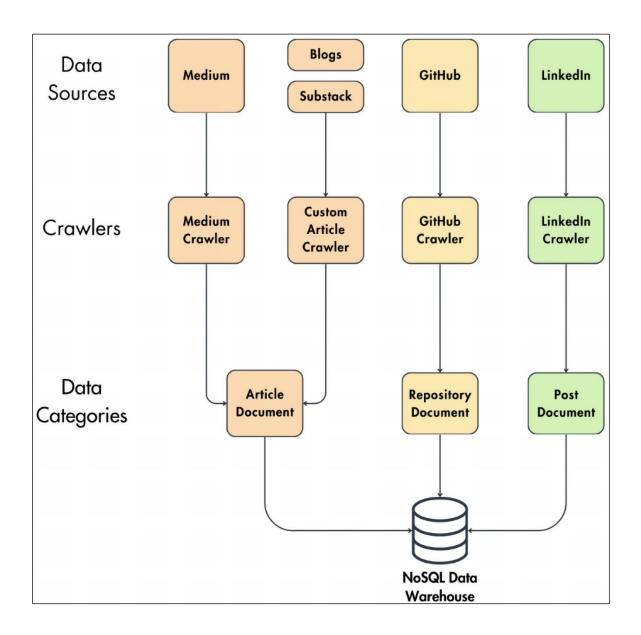


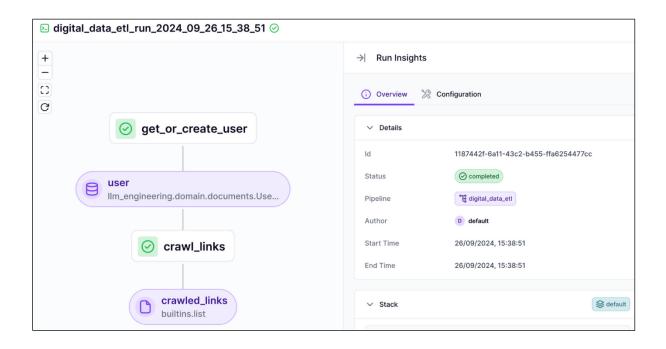


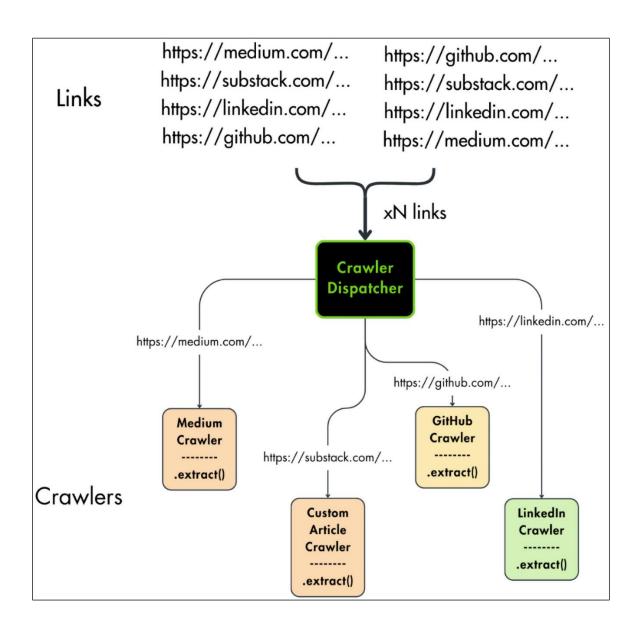


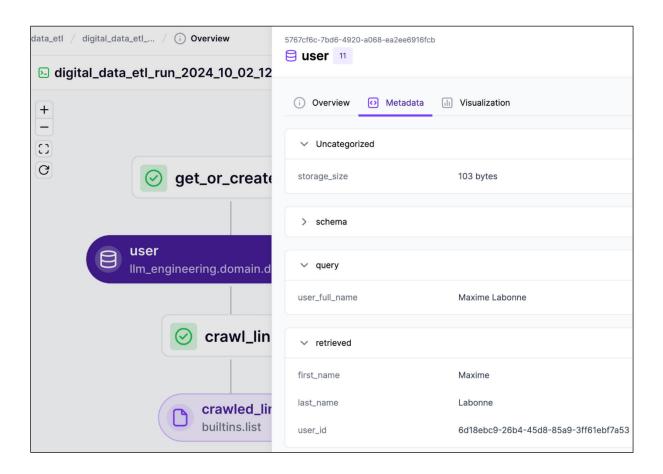
Chapter 3: Data Engineering

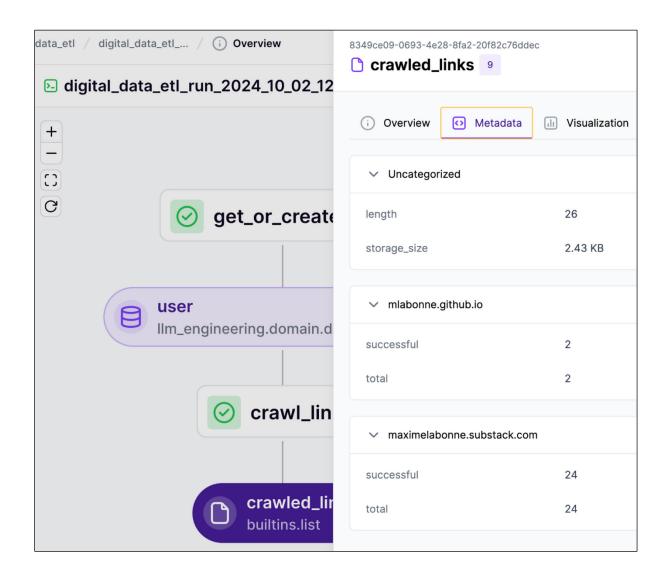






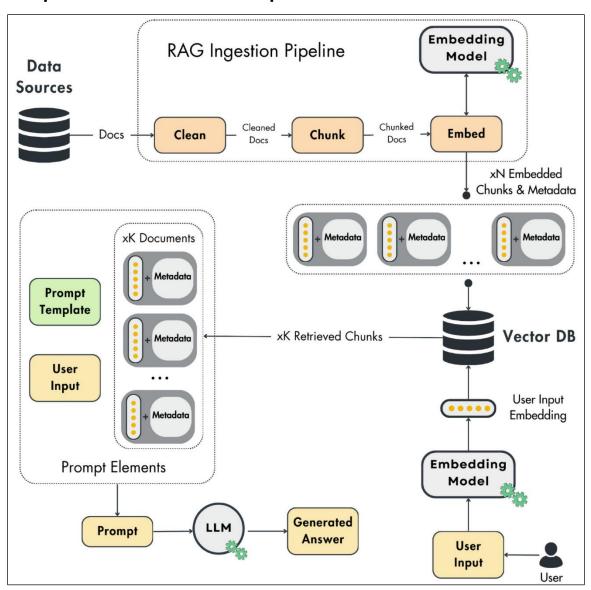


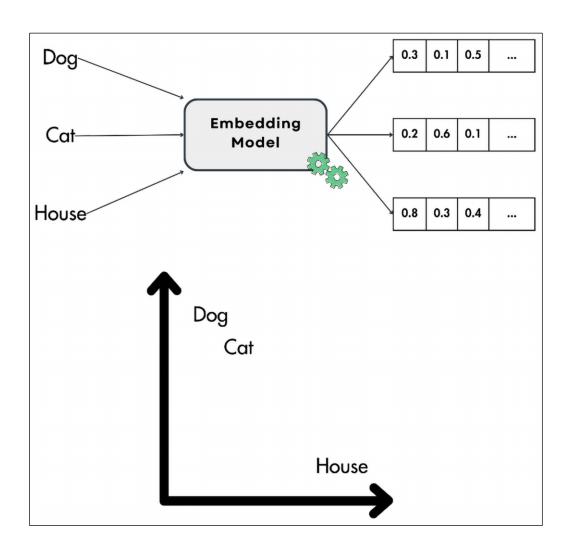


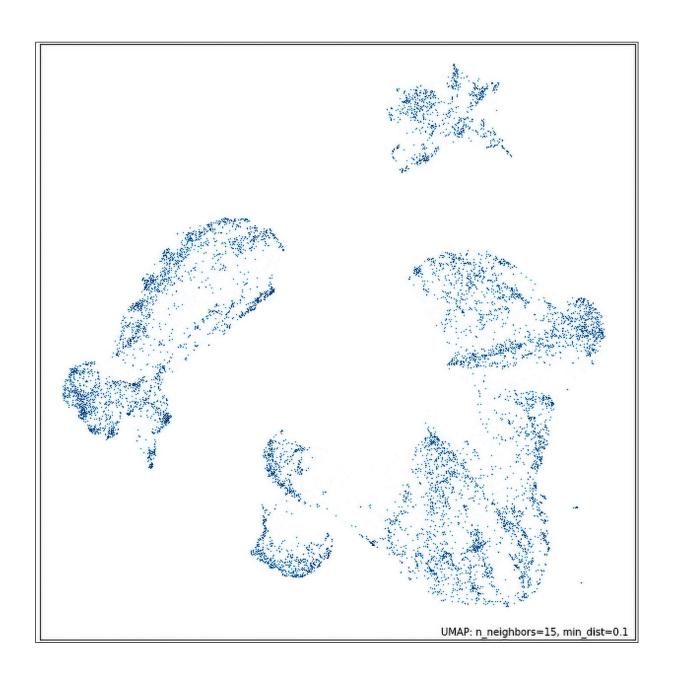


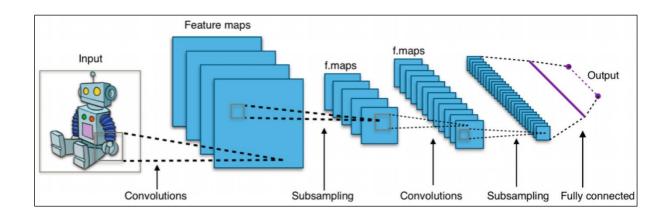


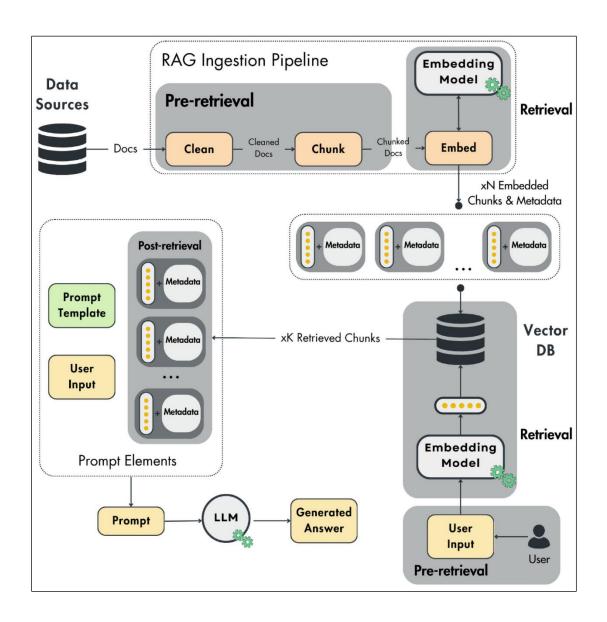
Chapter 4: RAG Feature Pipeline

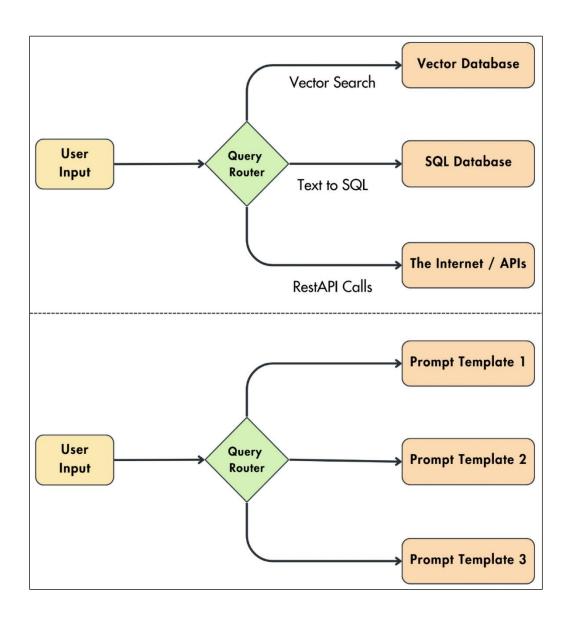


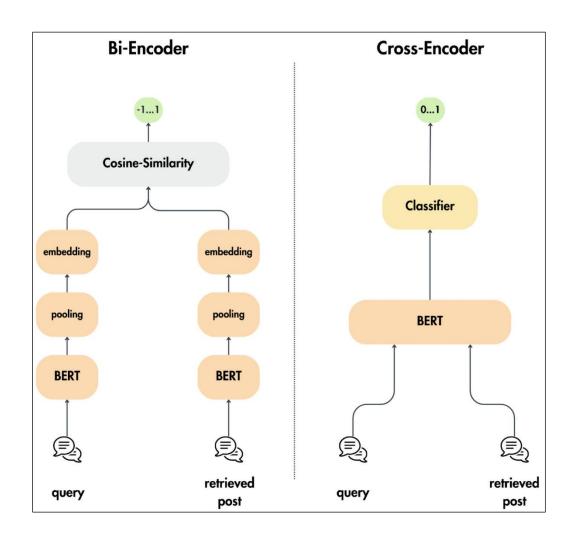


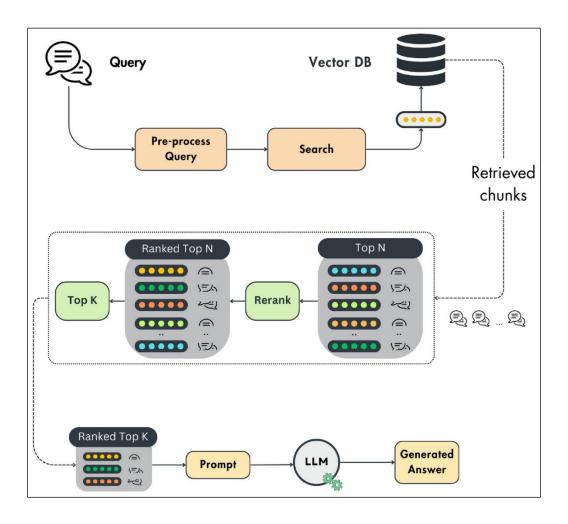


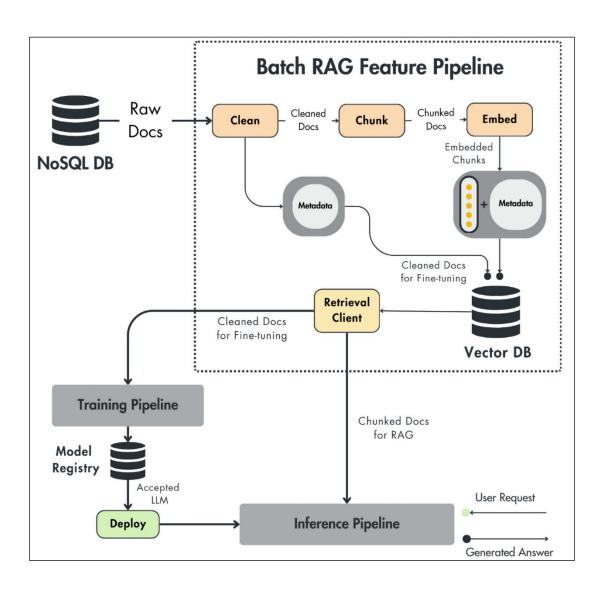


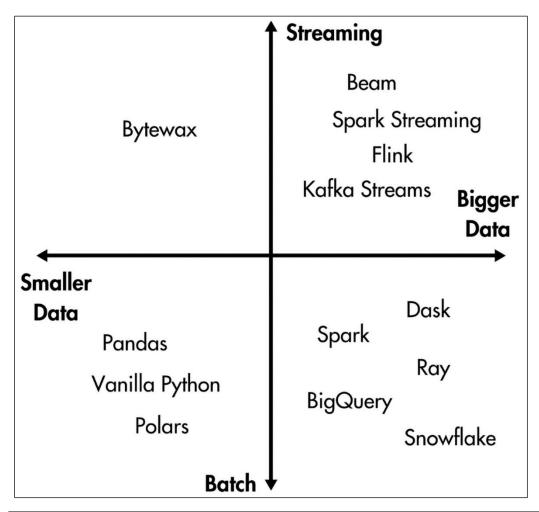




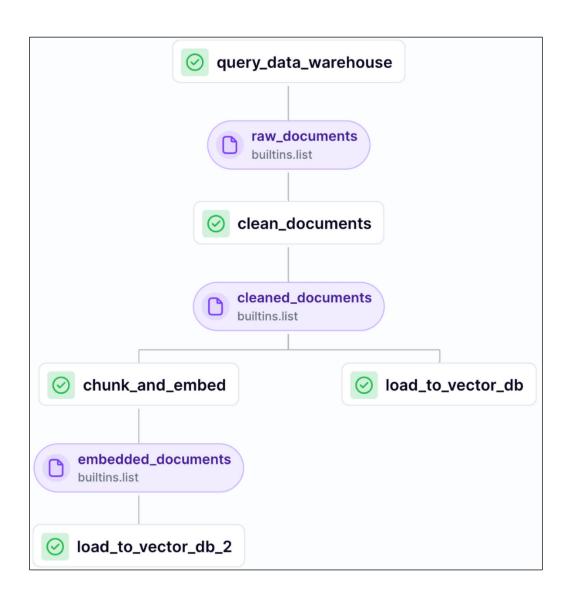


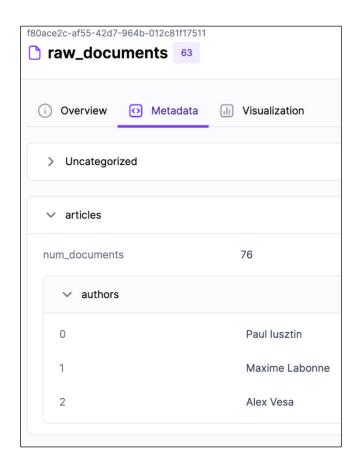


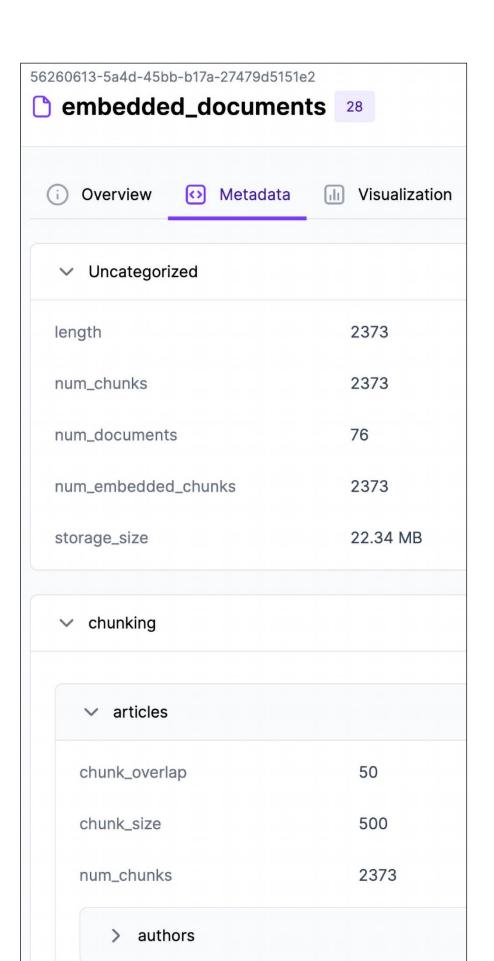


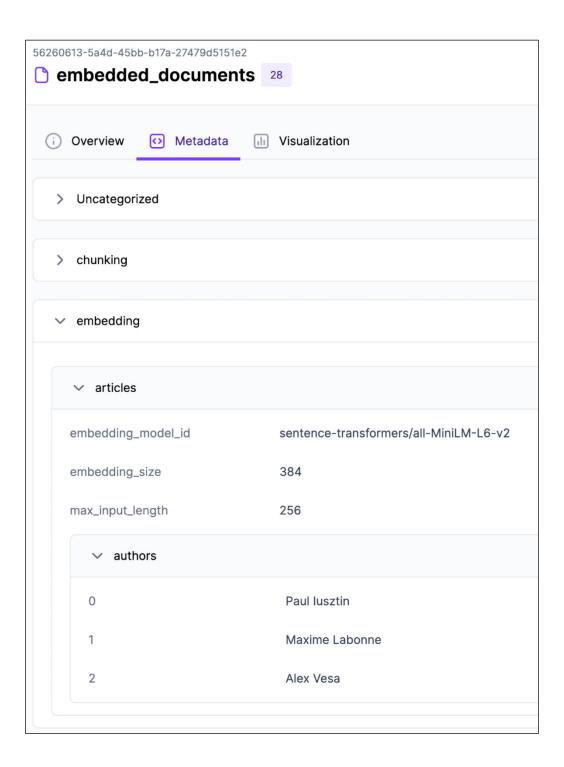


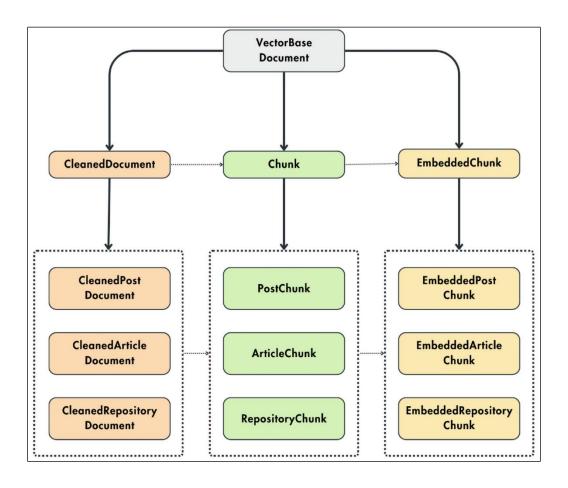


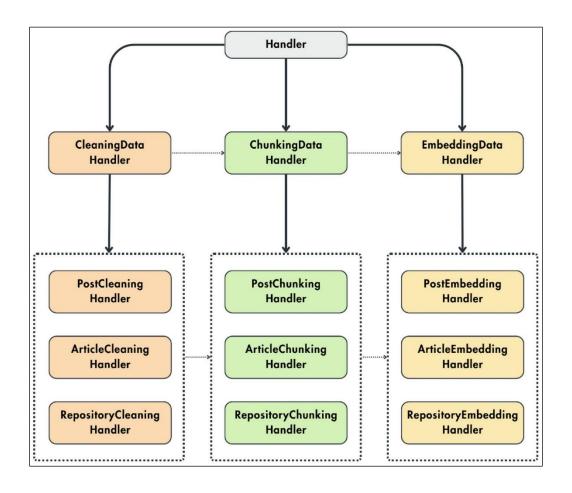




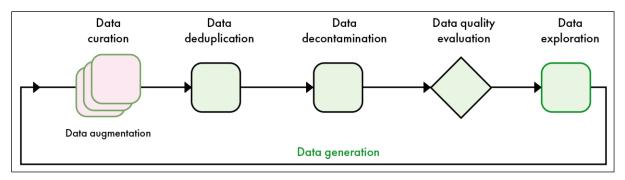


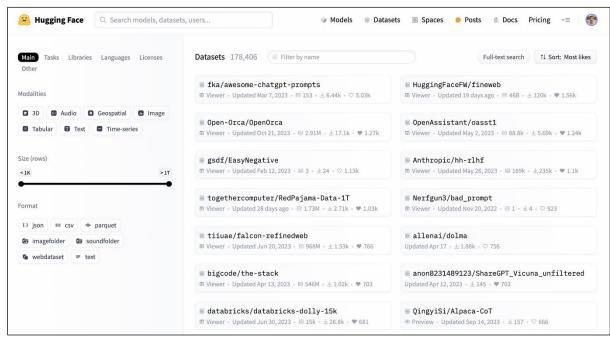


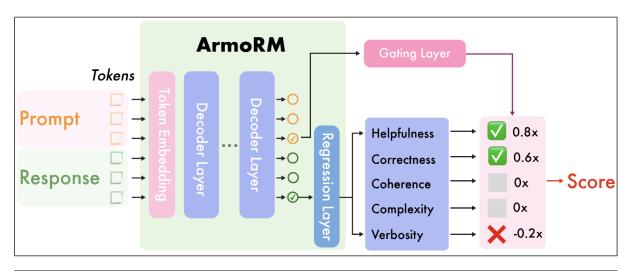


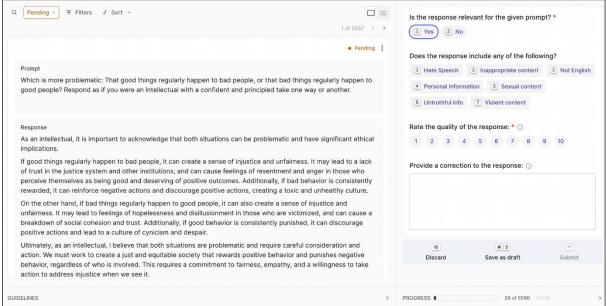


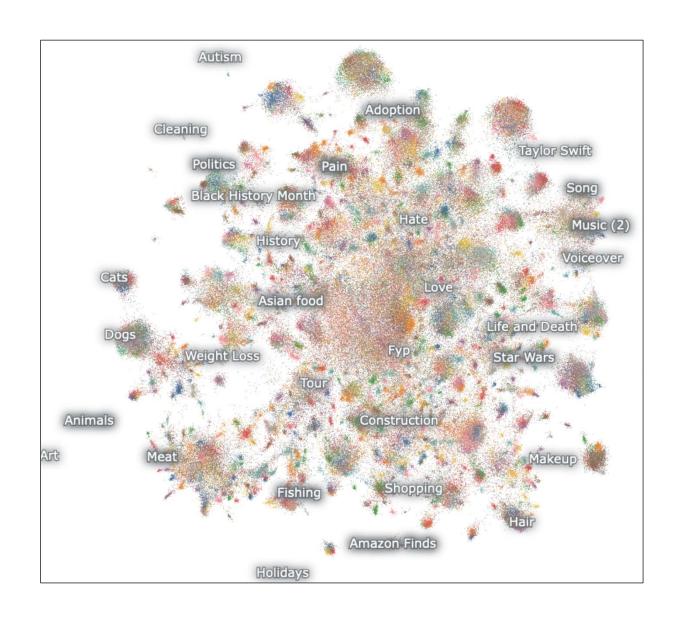
Chapter 5: Supervised Fine-Tuning

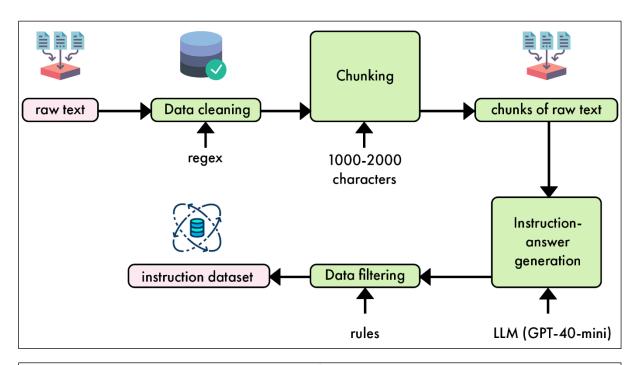




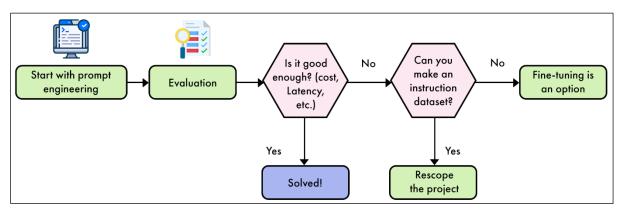


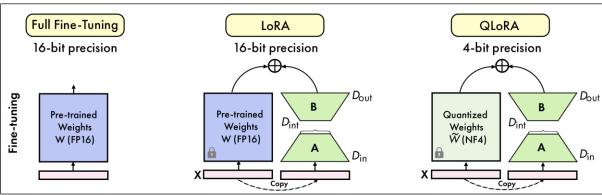


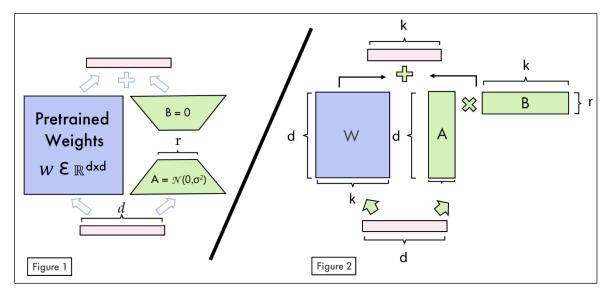


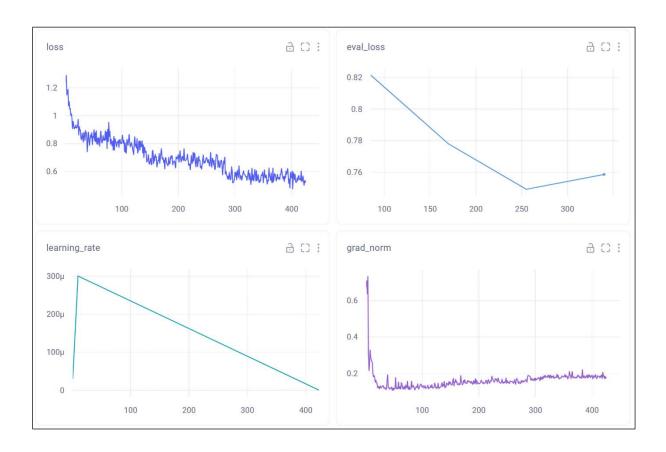




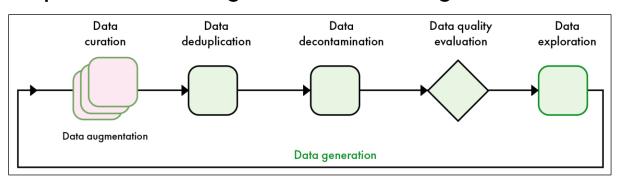


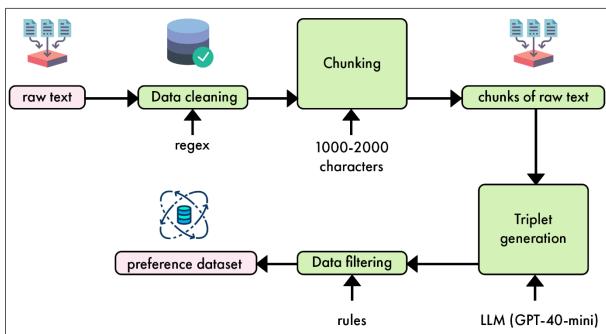




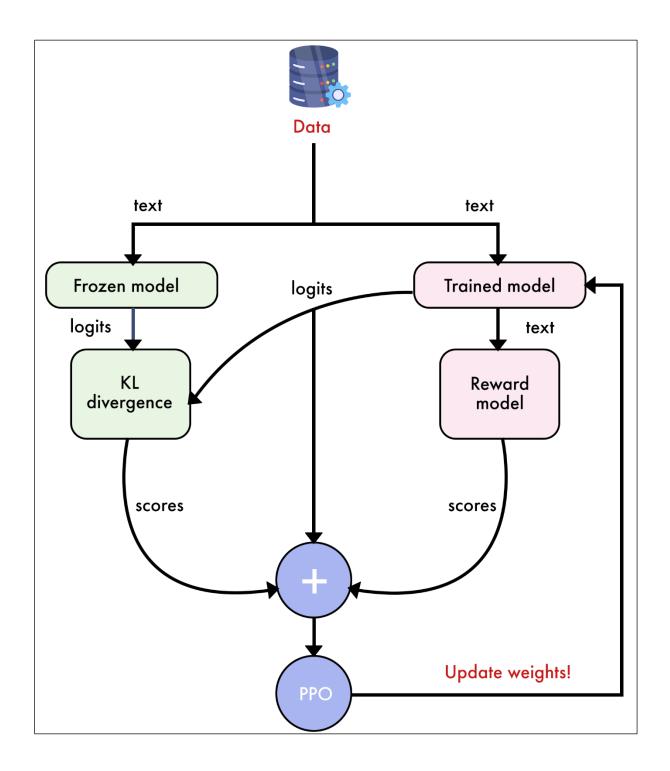


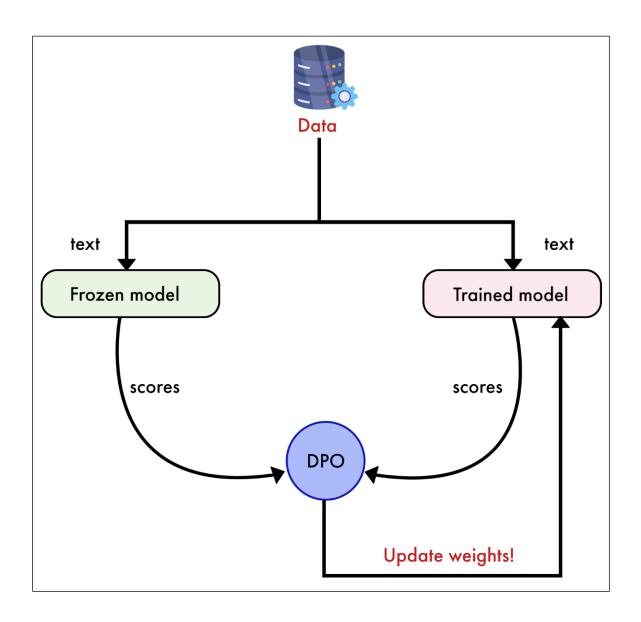
Chapter 6: Fine-Tuning with Preference Alignment

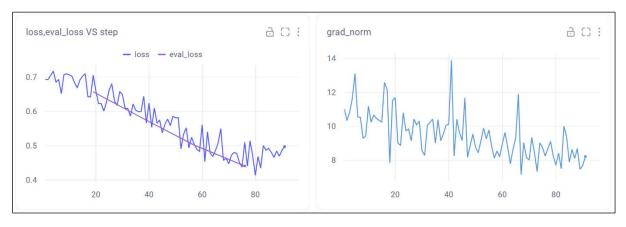


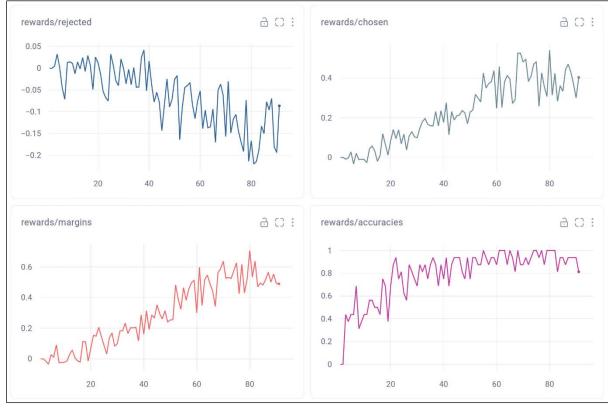


<pre>prompt string · lengths</pre>	rejected \$ string · lengths	chosen string ⋅ lengths
68-79 20.5%	101*136 32.4%	100*155 63.4%
What is the purpose of instruction datasets in guiding language models?	Instruction datasets are designed to efficiently guide a language model toward a specific task, such as news classification.	Instruction datasets offer an efficient way to guide a language model toward a specific task like news classification.
What components will you learn to build in the Hands on LLMs course?	In the Hands on LLMs course, you will learn to build a real-time streaming pipeline, a fine	There are 3 components you will learn to build during the course n a real time streaming
What is the purpose of the function fetch_all_cleaned_content?	The function fetch_all_cleaned_content is used to efficiently retrieve a list of cleaned	To easily fetch data from a Qdrant database, you can utilize the Python function
What does the scroll method do in the context of data retrieval?	The scroll method is used to start scrolling through the database, allowing for the…	Initialize the Scroll Start by scrolling through the database using the scroll method,

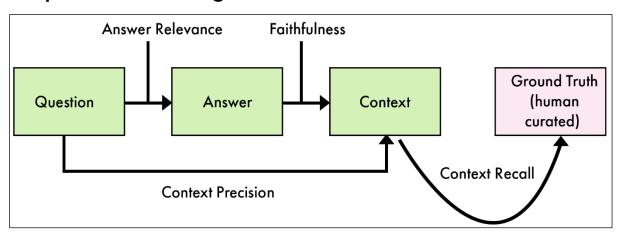


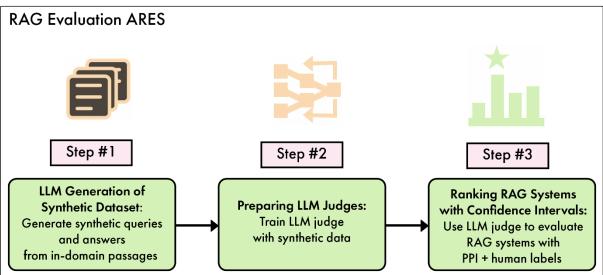




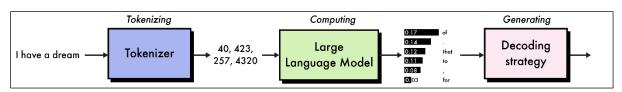


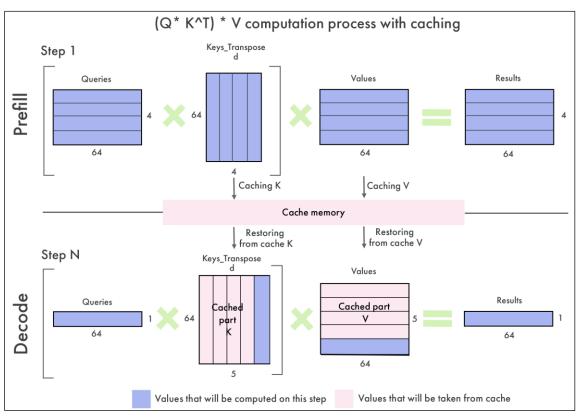
Chapter 7: Evaluating LLMs

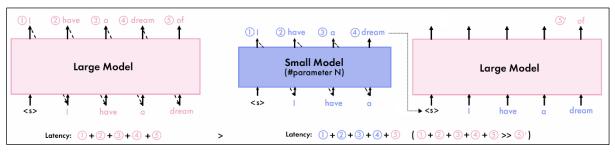


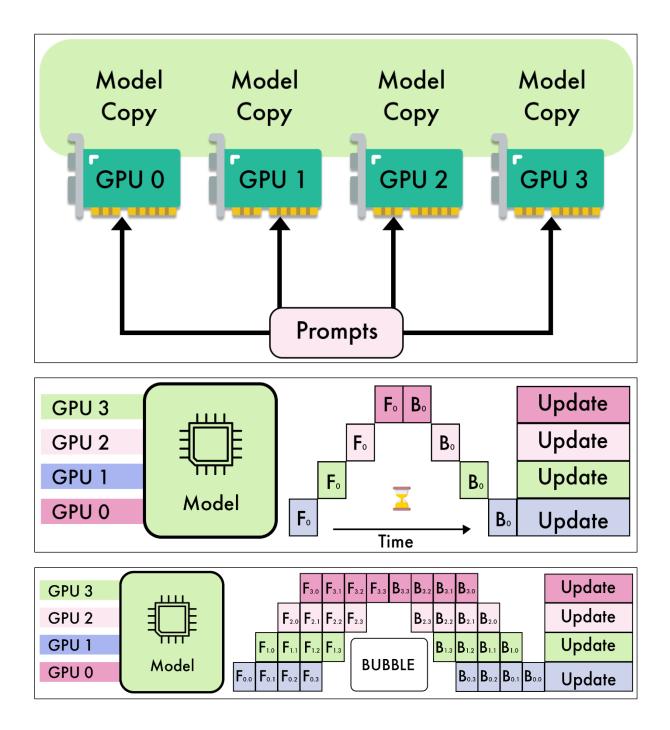


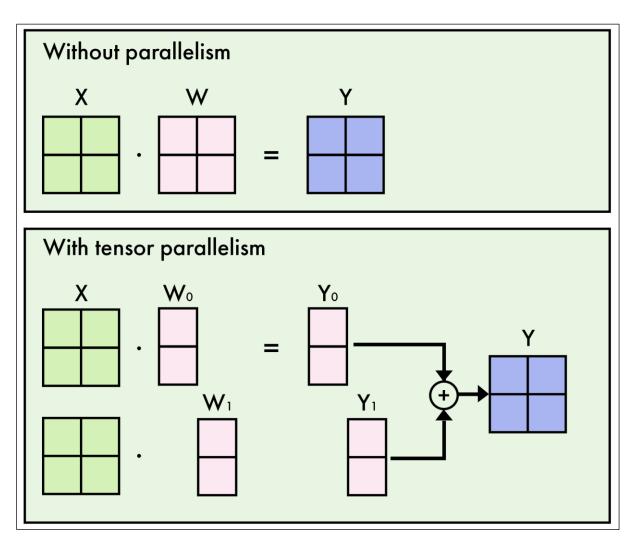
Chapter 8: Inference Optimization

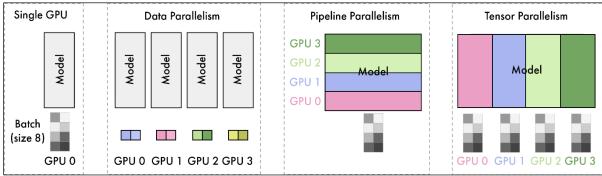


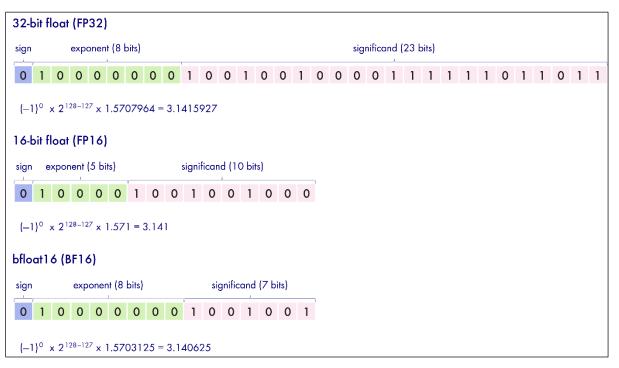


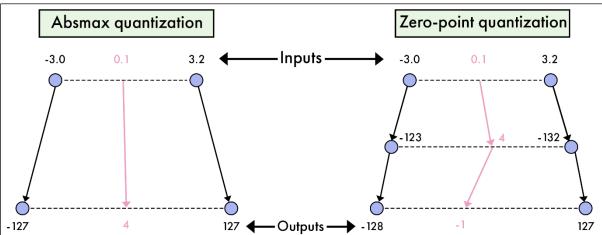


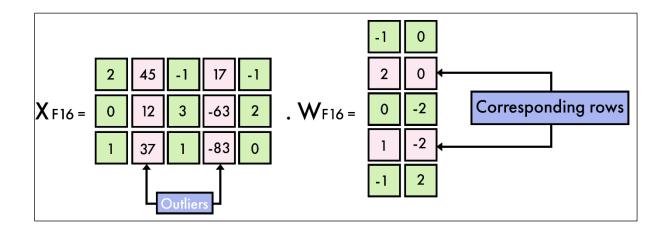




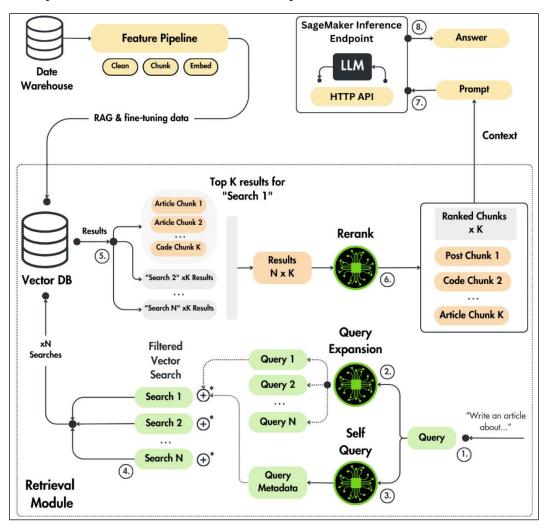


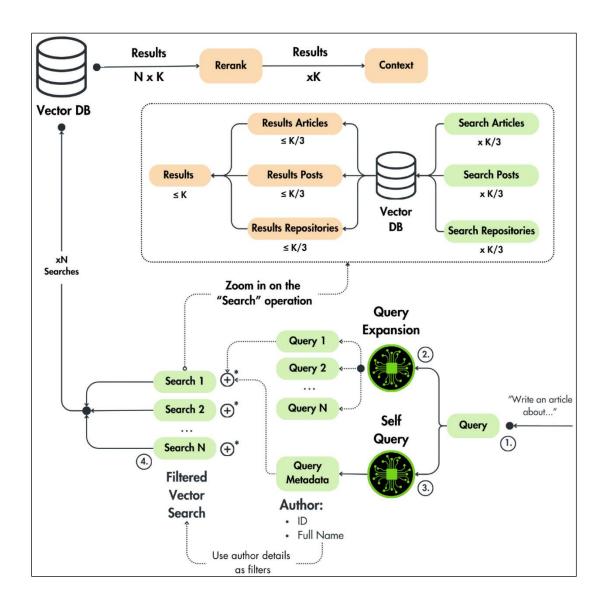


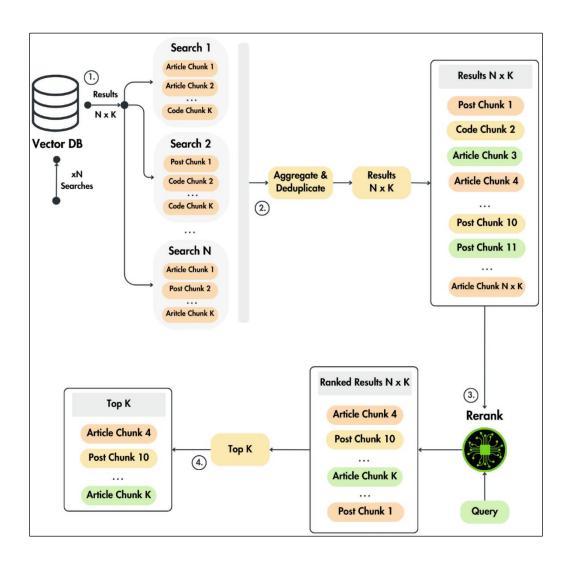


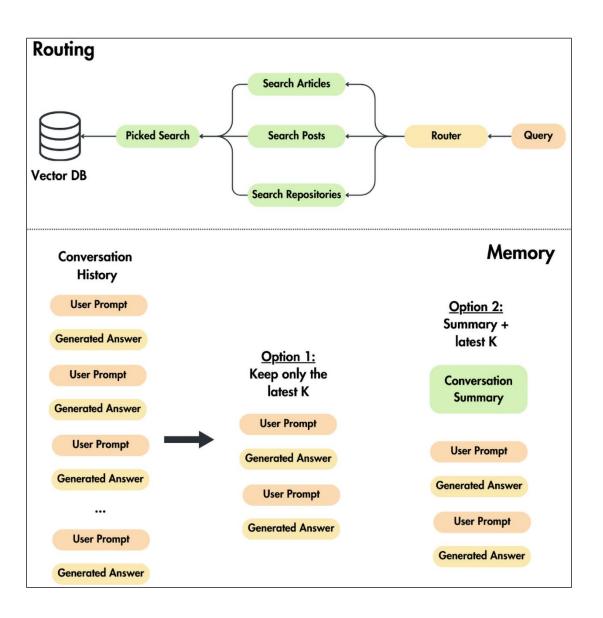


Chapter 9: RAG Inference Pipeline

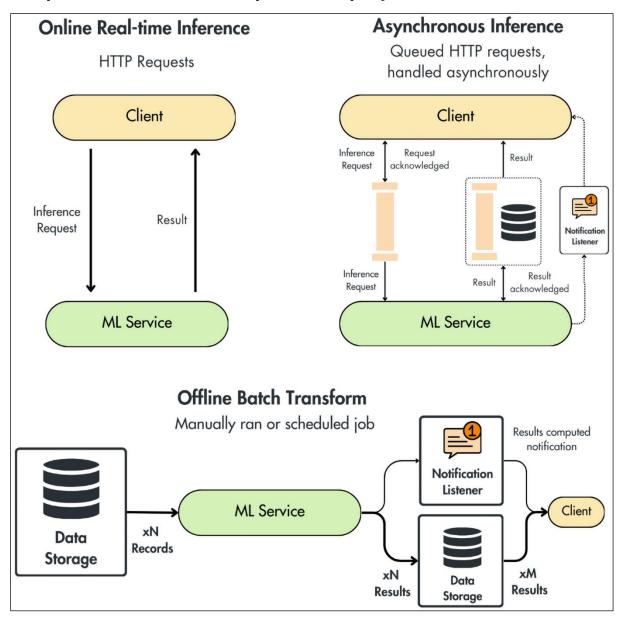


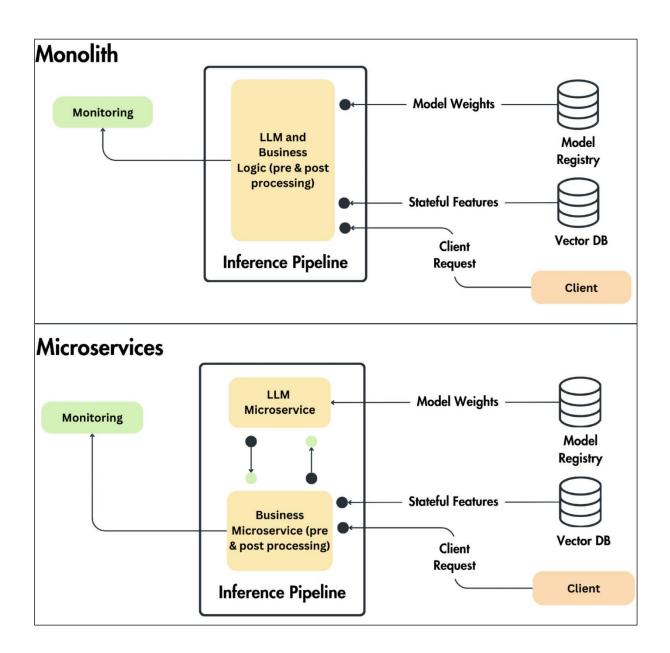


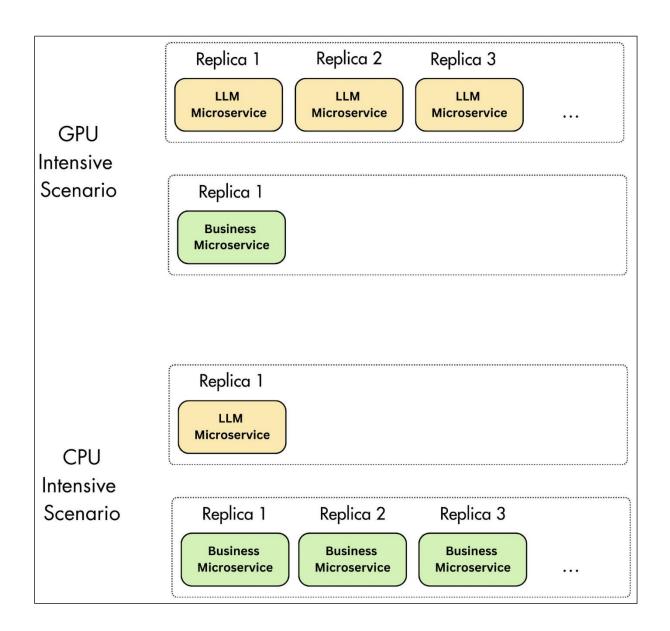


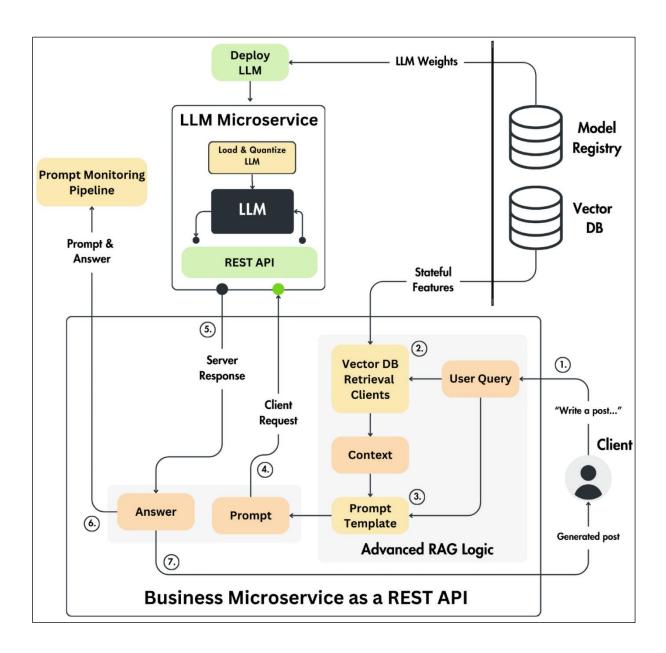


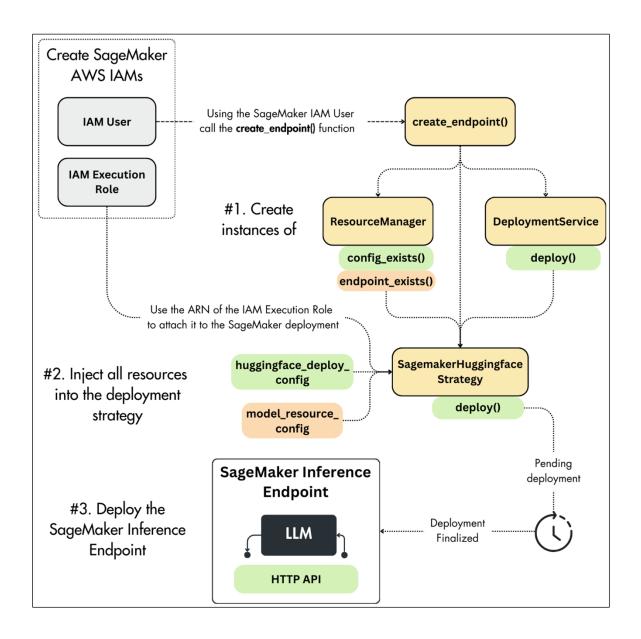
Chapter 10: Inference Pipeline Deployment

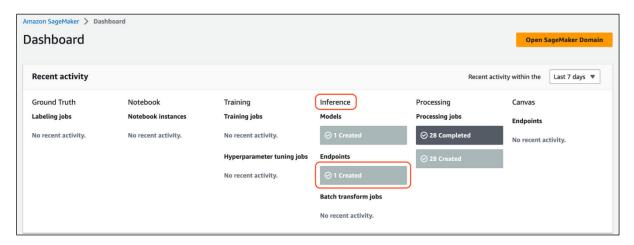




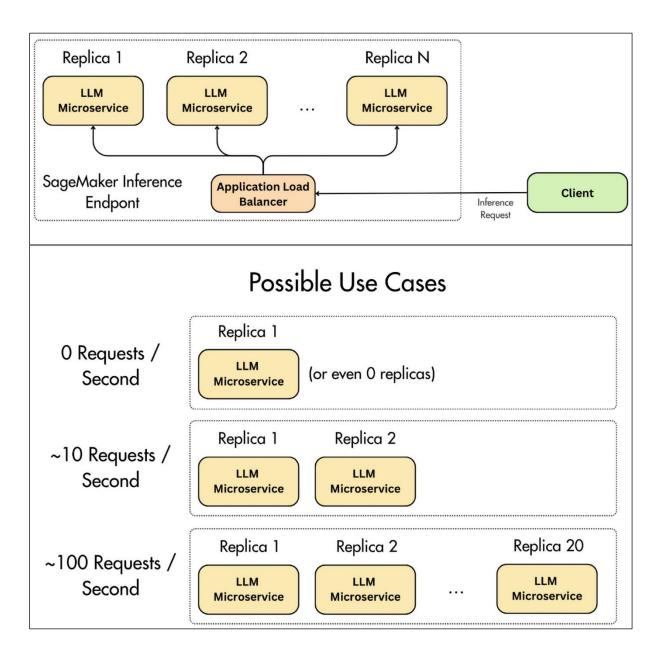




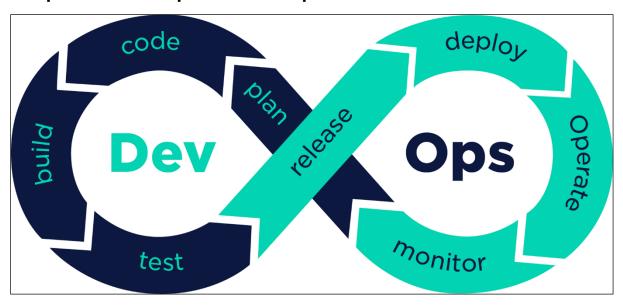


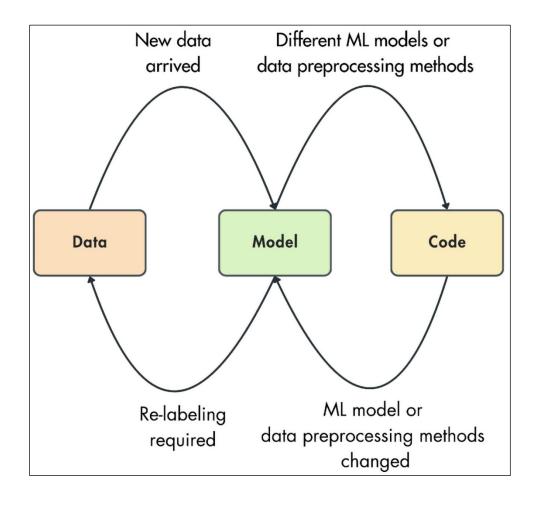


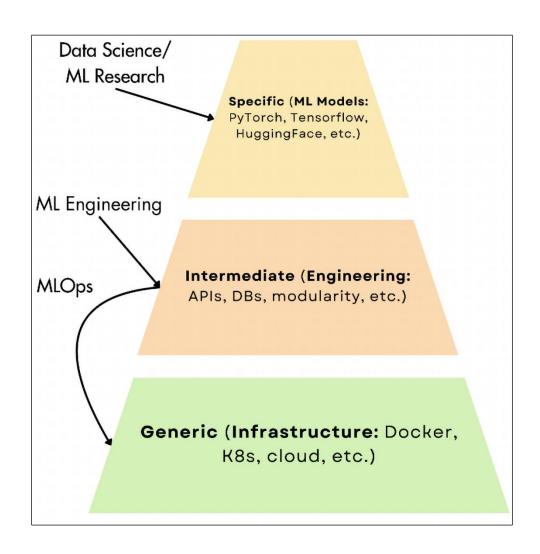


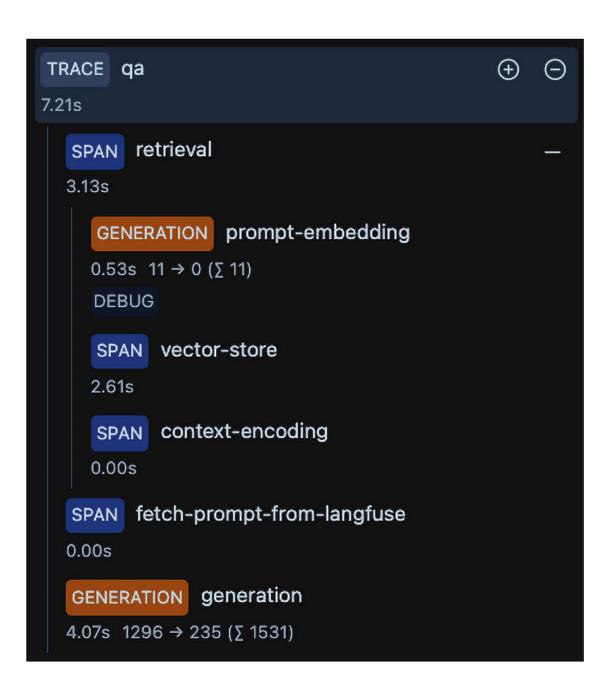


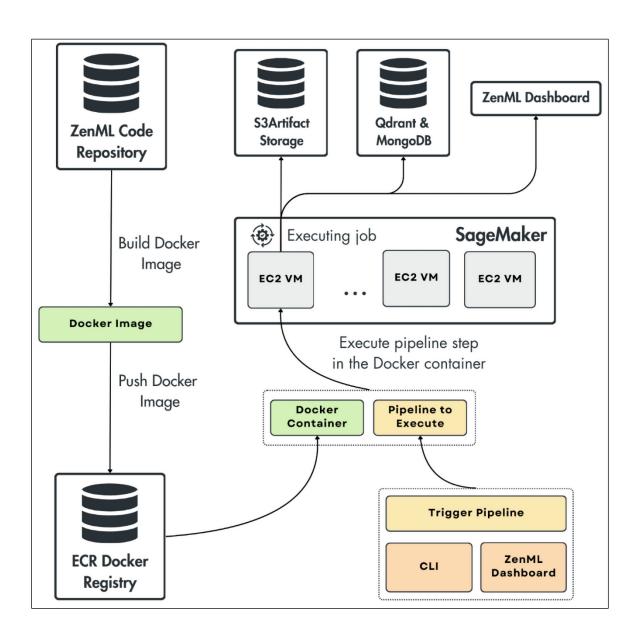
Chapter 11: MLOps and LLMOps

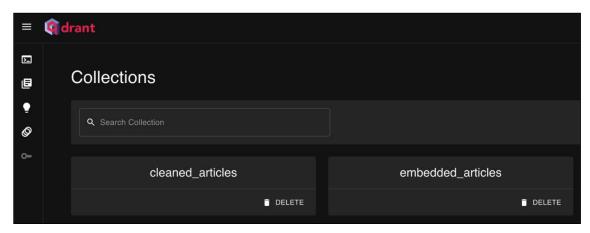


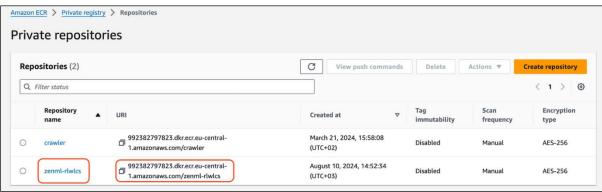


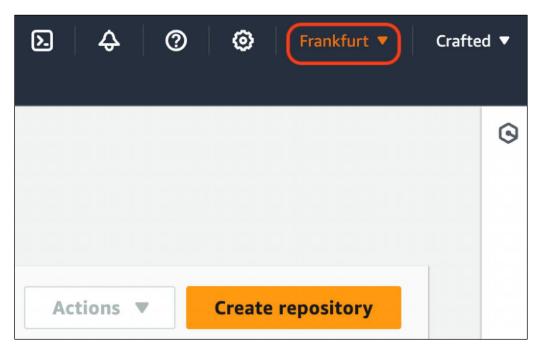


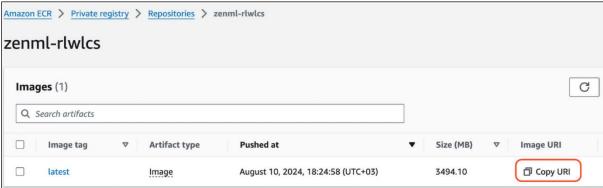


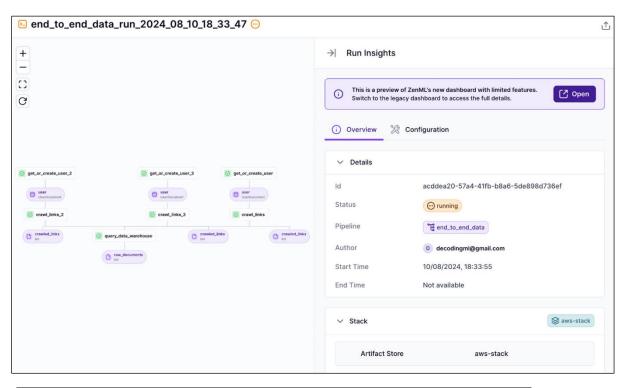


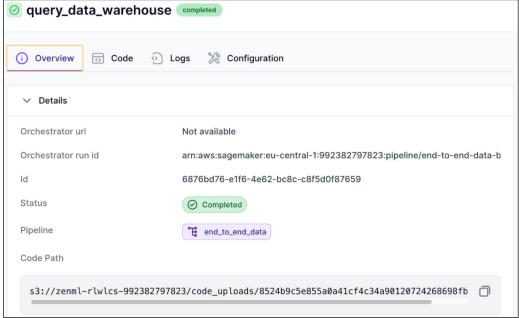


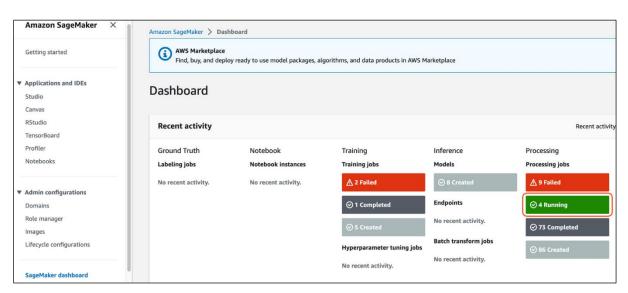


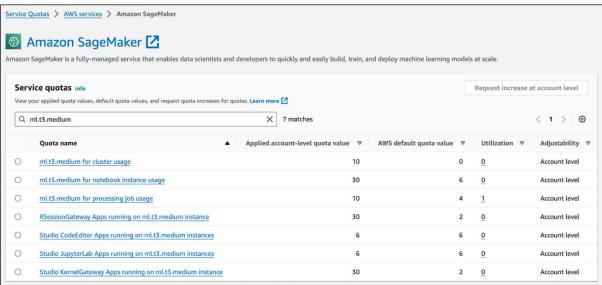


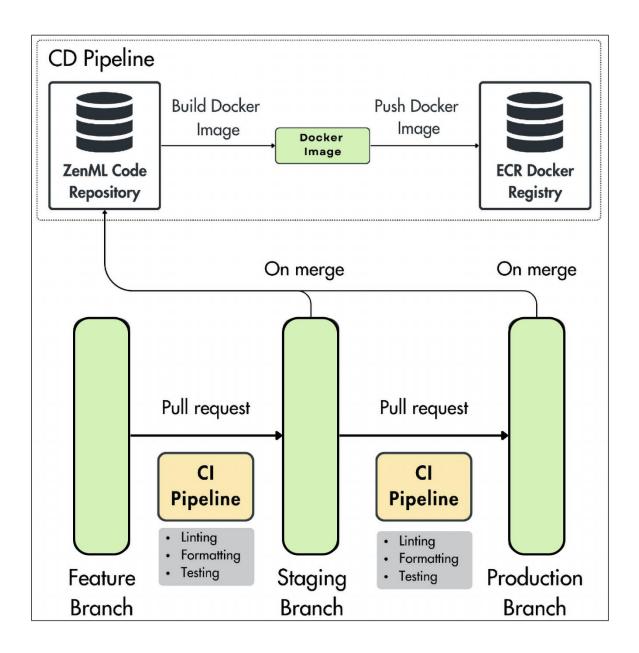


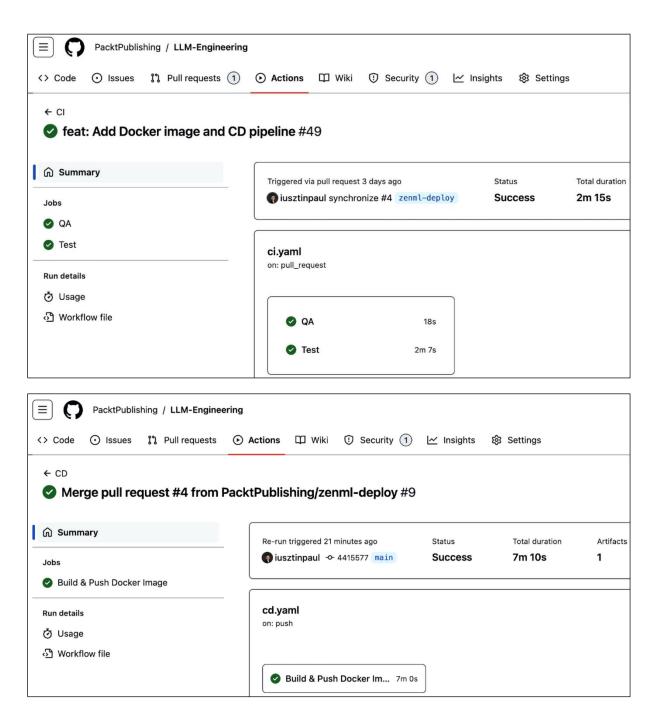




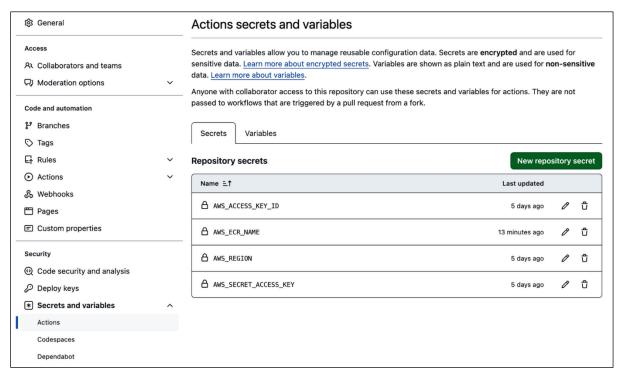


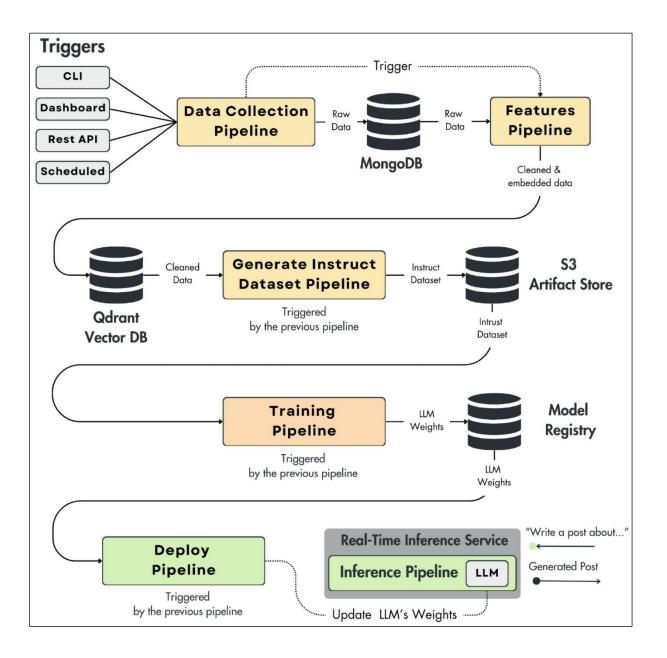


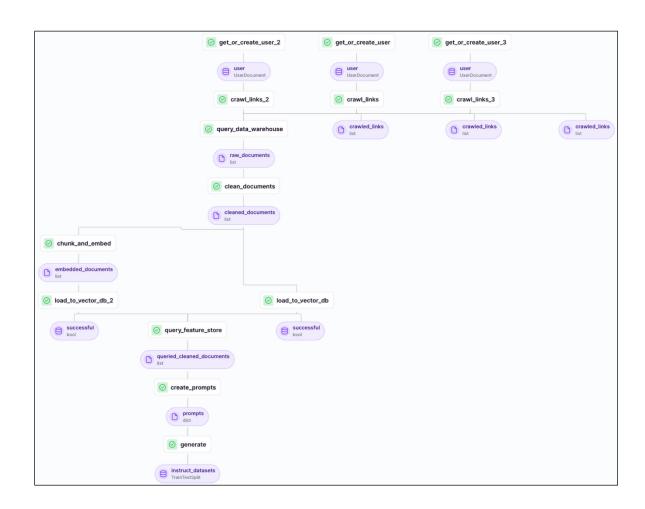


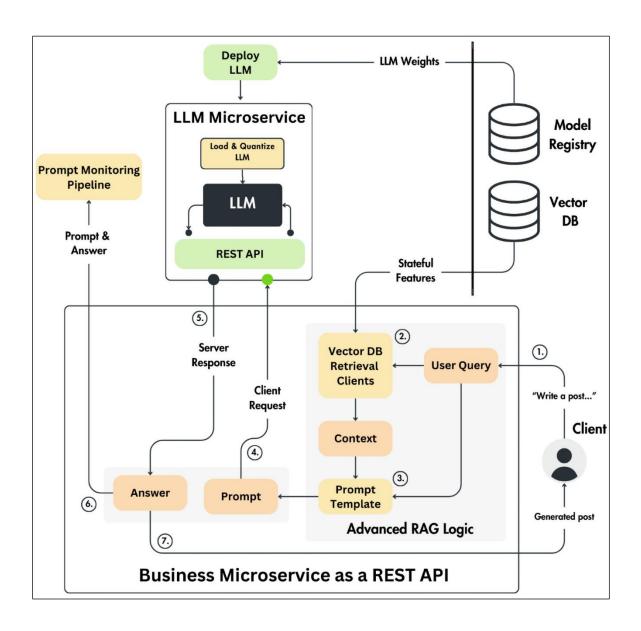












Appendix: MLOps Principles

