

GenAI in Action on Databricks

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DEMO GODS



**BE GOOD THIS
WEDNESDAY**

Businesses use GenAI

1. For building customer-facing products (OpenAI, Adobe, Midjourney, etc)
2. For internal process optimizations

1. You are a Data Scientist at a multinational company that manufactures and sells cameras.
2. Recently ran an ad-campaign and the sales took off.
3. Thousands of people from all over the world bought your product.
4. However, your customers have been leaving **a lot of negative reviews**.
5. Your job is to **iteratively** identify the problems with your product and help **fix** them.
6. **DO IT QUICKLY!!!**



Project Requirements

1. Process **multilingual audio** (or video) reviews
2. Process **multilingual textual** reviews
3. **Classify** the reviews as positive, neutral, or negative
4. Identify **specific** types of reported issues
5. Generate a report highlighting **key areas** of improvement
6. **Translate** the report to other languages for your international coworkers
7. **Generate content** for ad-campaign highlighting positive user experiences
8. **DO IT QUICKLY!!!**

Project Manager: So, what do you have in mind for this?

You: Well, let's build a **Compound AI System**.

Project Manager: Are you out of your mind??? That sh*t
takes months to build! We need something NOW!!!



You: Hold my Jupyter Notebook!

****aggressively logs in to Databricks****



But wait, what is a **Compound AI System**?

A system of different AI models **working together** to solve a complex problem by handling different parts of the task.



Architecture Diagram

An Important Question First

Am I proud of this diagram ?

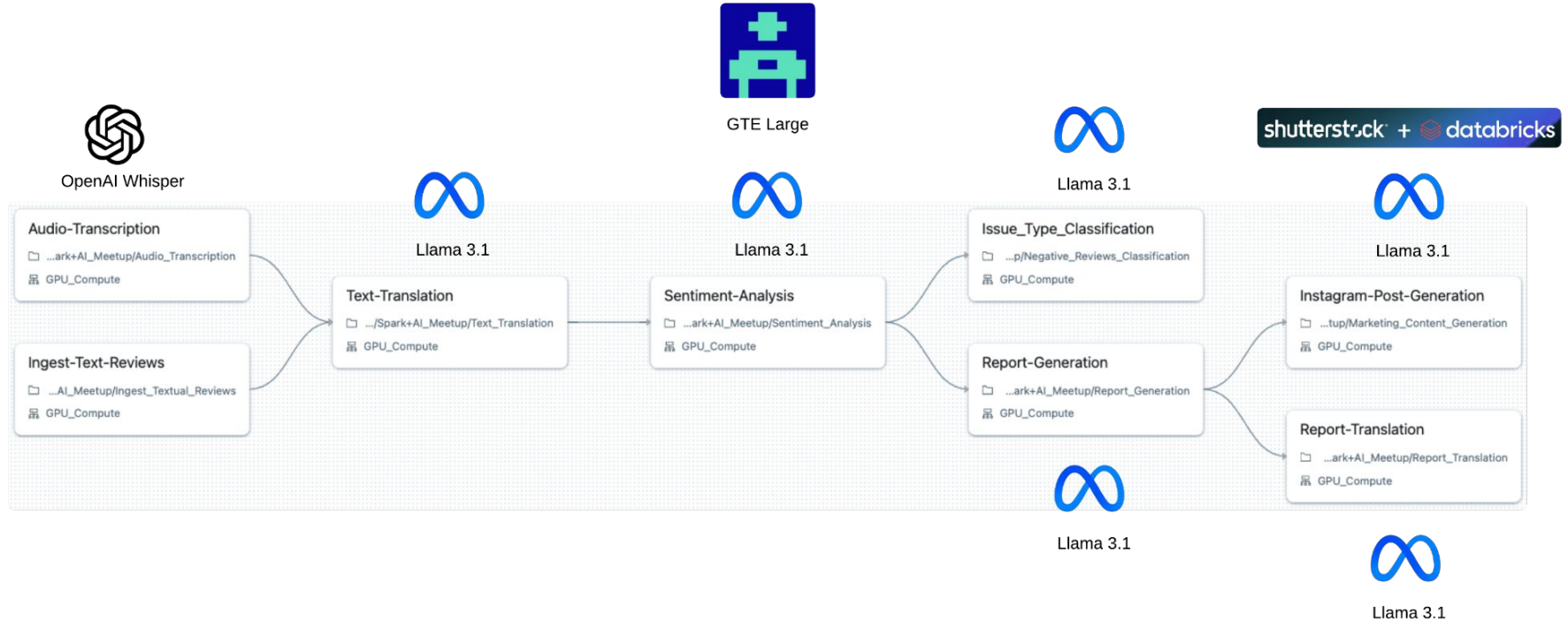
No!

But, did I try my best?

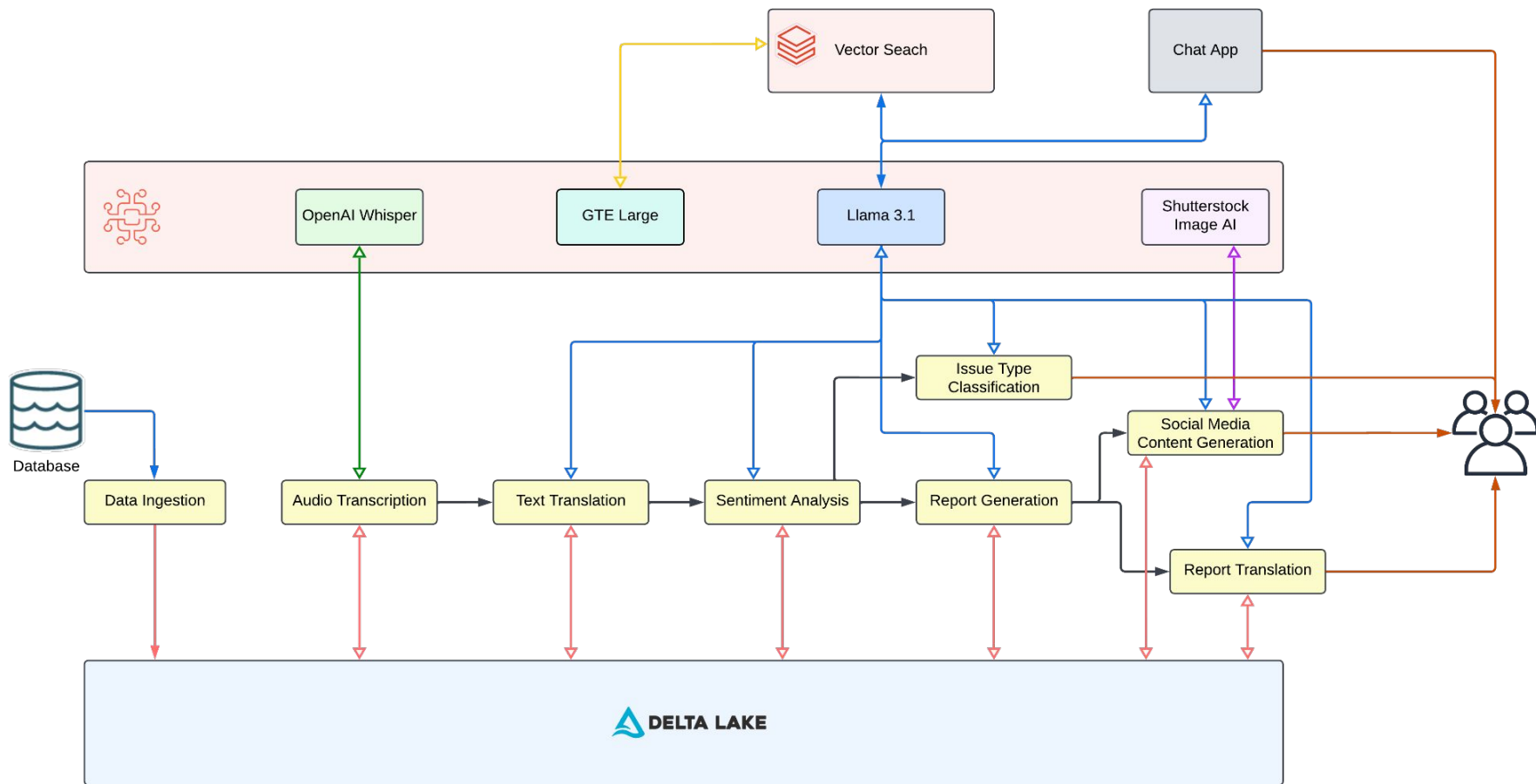
Because that's what matters!

Also No !

Architecture Diagram for Dummies



Architecture Diagram for Nerds



TIME FOR SOME ACTION...



How much time did it take for you to build this demo?

2 DAYS !!!

Not including this presentation. Making this presentation was more painful.



A couple of years ago, building a system like this would have taken several weeks or even months.

Your PM



Your VP



Your CEO



You just saved your company!

You got a promotion!!

You also got a hefty bonus!!!



THE END!

