THE
THE CAFFEIEINATED
DEVS
SIMPLIMEDI-
SEARCH

Team

TIMOTHY YEBOAH

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Sifting through medical reports can be time consuming!

- Traditional methods of accessing patient information in electronic health records (EHRs) are time-consuming and inefficient.
- Navigating through extensive patient records hinders workflow efficiency and limits timely and informed care delivery.
- Lack of contextual awareness makes it challenging to understand a patient's complete medical history.

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Scenario

- Emergency department encounter with a patient with a complex medical history.
- Challenge: Accessing relevant patient information from disparate EHRs scattered across multiple systems and formats.
- Consequence: Time-consuming process leads to delays in care delivery and potential errors in decision-making.

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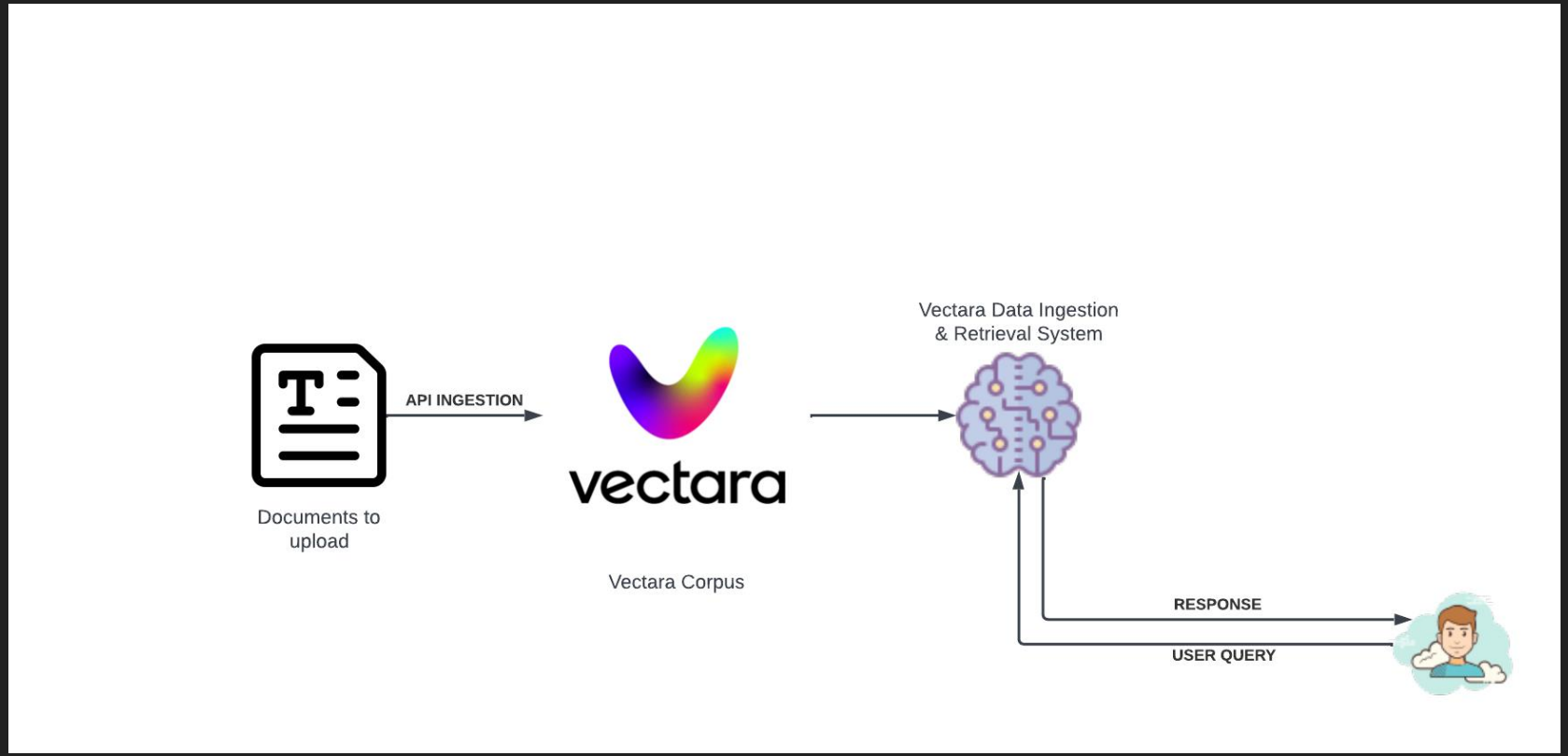
The solution

Team Lead : Timothy Yeboah

Tags: #medical #vectara #llama-index, #RAG, #GPT3.5, #TonicValidate

- **Project title** : SimpliMedi-Search
- **Short Description**: This AI-powered application empowers healthcare providers to quickly and intelligently search patient medical records. Simplify diagnosis, improve treatment planning, and enhance patient care through contextual information retrieval.
- **Long Description**: Revolutionizes the way patient medical records are accessed and utilized. By leveraging sophisticated algorithms, it enables rapid and intelligent searches, allowing healthcare professionals to swiftly retrieve pertinent patient information. Moreover, by providing contextual information retrieval, the application offers a comprehensive view of a patient's medical history, leading to more personalized and effective care delivery.
- **Solution**: SimpliMedi-Search tackles these challenges head-on by harnessing the power of Artificial Intelligence (AI) through Vectara RAG. Enables healthcare providers to search patient medical records in a fast, efficient, and contextual manner.

How it works


Documents to upload
API INGESTION
vectara
Vectara Corpus
Vectara Data Ingestion & Retrieval System
RESPONSE
USER QUERY

Demo

- App link: https://simplimedi-search-dtjvpnsy6fdskzvvnc6ryy.streamlit.app/

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Market Opportunity

There are ~6,120 hospitals in the United States

Assumption 5% of hospitals will buy the product offering and pay 600$ per year

2024 opportunity (US market only) ~ 734$

Growth – 5% per year for next 3 years

Revenue model

Paid for by medical institutions on a yearly subscription plan

Future prospects

1. **Integration with Wearable Devices**: Explore the integration of wearable health monitoring devices to capture real-time patient data, allowing for even more comprehensive and up-to-date medical records.
2. **Predictive Analytics**: Implement predictive analytics algorithms to anticipate potential health issues or trends based on historical data, enabling proactive interventions and preventive care measures.

Thanks!