HACKATHON 2023 Lablab.ai

JTAVN Team

Contest: TruEra Challenge: Build LLM Applications with Google Cloud Vertex AI



JTAVN <u>TEAM</u>

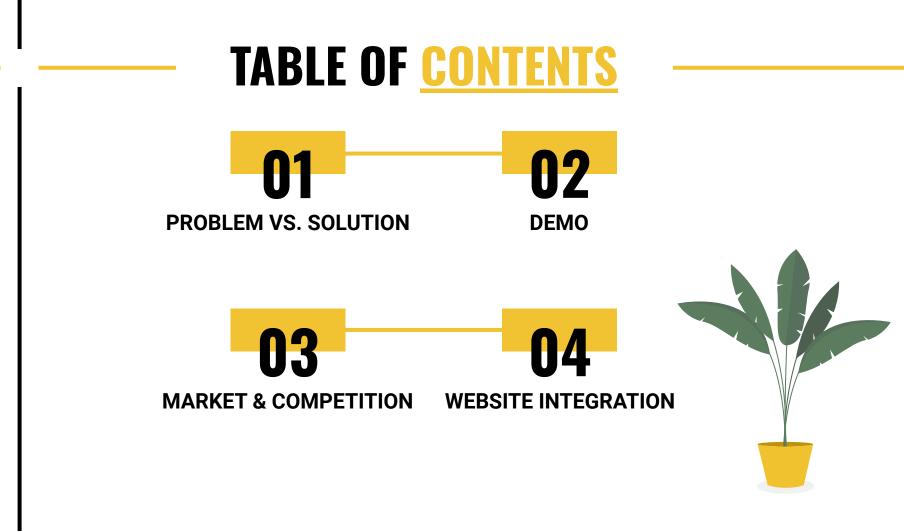






JOHNNIE TIEN NGUYEN

I am passionate about AI, Generative AI, and Data science, and I am committed to using these technologies to solve real-world problems. I am also a strong advocate for diversity and inclusion in the tech industry, and I love to building a team that reflects the diversity of our customers and users.





PROBLEM

Finetune LLM model is very costly

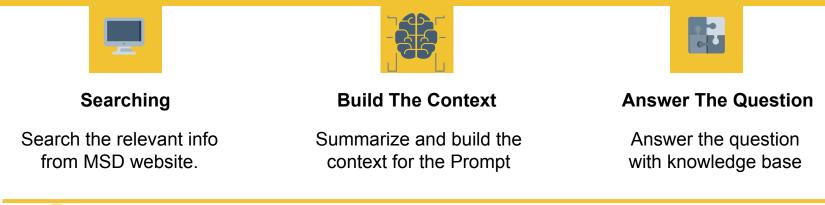
In today's world, accessing reliable healthcare information can be a daunting task. Finetune LLM model is very costly.

This project seeks to revolutionize this landscape by developing a readily-available medical chatbot powered by Google's cutting-edge Generative AI technologies. Palm2, Med-Palm2 and will be Gemini soon.

THE SOLUTION

Leveraging the immense knowledge base of Google Palm2 LLM and Google Enterprise Search (Vertex AI Search and Conversation).

This chatbot will be provided the context with comprehensive medical and healthcare information from trusted sources like MSD. This innovative approach eliminates the need for costly fine-tuning, ensuring a cost-effective solution while guaranteeing the accuracy and timeliness of information provided.









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MSD Manual for the Consumer

The best first place to go for medical information

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FEATURED CONTENT



Understanding Ear

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<u>MSD WEBSITE PROVIDE MANY LANGUAGES</u>

PRODUCT DEMO

🕌 ASK DOC & SEARCH chatbot 🔎

Design by 🕹 Johnnie Tien --- version: 0.0.06

✓ Searching Complete!

Searching data...

🧵 Medical resources for professionals and consumers from MSD website 🦉

Sign of Lung cancer

Search for information about diseases and symptoms.

User manual:

Search and consult medical information:

 The information is for reference only and needs further confirmation from a specialist doctor.

Some upgrades in the following

 Consulting and follow up actions related questions, such as book an appointment...

Reset chat history

Mobile



Desktop

Topic: Lung Abscess - Pulmonary Disorders - MSD Manual Professional Edition

Topic: Lung Carcinoma - Pulmonary Disorders - MSD Manual Professional Edition

Pathological : Lung Carcinoma - Pulmonary Disorders - MSD Manual Professional ...

Pathological : Lung Abscess - Pulmonary Disorders - MSD Manual Professional .. Brief description : Lung Abscess - Etiology, pathophysiology, symptoms, signs, diagnosis & prognosis from the MSD Manuals - Medical Professional Version. Link: https://www.msdmanuals.com/professional/pulmonary-disorders/lung-abscess/lung-abscess

Topic: Paraneoplastic Syndromes - Hematology and Oncology - MSD Manual Professional Edition

Pathological : Paraneoplastic Syndromes - Hematology and Oncology - MSD ...

Brief description : It occurs most commonly in men with intrathoracic tumors (70% have small or oat cell lung carcinoma). Symptoms and signs include fatigability, weakness, pain in ... Link: https://www.msdmanuals.com/professional/hematology-and-oncology/overview-of-cancer/paraneoplastic-syndromes

Extract information from search results:

The most common signs and symptoms of lung cancer are:

A persistent cough that does not go away

https://askdocbotpalm2.streamlit.app/

MARKET COMPETITION

Our competitor

- Ada: Ada offers a similar service but focuses on specific medical conditions and symptoms. While Ada may offer deeper knowledge in specific areas, the Our chatbot provides broader coverage.
- Babylon Health: Babylon Health provides a more personalized chatbot experience with video consultations with doctors. However, this can be significantly more expensive than using our AI chatbot.
- Pre-trained with Extensive Knowledge Base: Have to build up the dataset and the need for costly fine-tuning.

Our Solutions

- Cost-effective: By leveraging pre-existing knowledge bases from trusted sources like MSD, the chatbot requires minimal fine-tuning, significantly reducing development and maintenance costs compared to chatbots built from scratch.
- Accessibility: The chatbot is designed to be readily available and easily integrated into existing websites, making healthcare information accessible to a wider audience.

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Co	onsumer Version	Q Search					SEARCH
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HEALTH TOP	ICS & CHAPTERS A B C	D E F G H	I J K L	M N O P Q	R S T U	v w	X Y Z

FEATURED CONTENT



Strabismus and Amblyopia: What Parents Need to Know

30/10/23

As children grow and develop, some parents may notice that their eyes begin to point in different directions and become misaligned. This condition is known as strabismus, and it's relatively...

Read All

ASK DOC & SEARCH chatbot

Design by 🤓 Johnnie Tien — version: 0.0.06

Medical resources for professionals and consumers from MSD website

How to eat healthy?

Searching Complete!

~

Extract information from search results:

Here are some tips on how to eat healthy:

- Eat plenty of fruits and vegetables. Fruits and vegetables are low in calories and high in nutrients, including vitamins, minerals, and fiber. They are also a good source of antioxidants, which can help protect your cells from damage.
- Choose whole grains over refined grains.
 Whole grains are higher in fiber and nutrients than refined grains. They can help you feel full and satisfied, and they may also help

EASY EMBEDDED TO ANY WEBSITE





Do you have any questions? Email: johnnietien@gmail.com Demo: https://askdocbotpalm2.streamlit.app/

