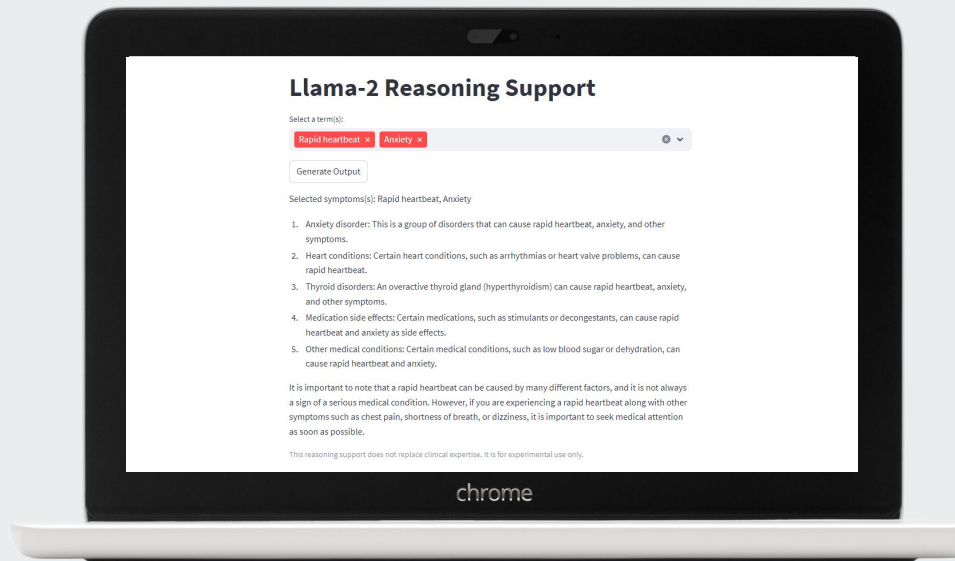




Llama-2 Reasoning Support

Support Clinical Thinking



Outline

The Problem

Solution Proposal

Next Steps



The Problem

Problem statement

The diagnostic thinking is complex.

Forming a list of diagnoses from reported symptoms can be challenging. Providers might be prone to bias. Healthcare settings are fast paced. This makes diagnostic thinking error prone.



Solution Proposal



Solution description

Large language models can provide a broad diagnostic perspective in a minimum of time.



Why it's better than existing solutions

Supporting healthcare providers with reasoning backed by large language models can broaden the range of diagnoses considered and fasten the process of diagnostic thinking.

Llama-2 Reasoning Support

Llama-2 Reasoning Support

Select a term(s):

Rapid heartbeat x Anxiety x

Generate Output

Selected symptoms(s): Rapid heartbeat, Anxiety

1. Anxiety disorder: This is a group of disorders that can cause rapid heartbeat, anxiety, and other symptoms.
2. Heart conditions: Certain heart conditions, such as arrhythmias or heart valve problems, can cause rapid heartbeat.
3. Thyroid disorders: An overactive thyroid gland (hyperthyroidism) can cause rapid heartbeat, anxiety, and other symptoms.
4. Medication side effects: Certain medications, such as stimulants or decongestants, can cause rapid heartbeat and anxiety as side effects.
5. Other medical conditions: Certain medical conditions, such as low blood sugar or dehydration, can cause rapid heartbeat and anxiety.

It is important to note that a rapid heartbeat can be caused by many different factors, and it is not always a sign of a serious medical condition. However, if you are experiencing a rapid heartbeat along with other symptoms such as chest pain, shortness of breath, or dizziness, it is important to seek medical attention as soon as possible.

This reasoning support does not replace clinical expertise. It is for experimental use only.

Llama-2 Reasoning Support

Select a term(s):

Rapid heartbeat x Anxiety x

Fever
Cough
Shortness of breath
Fatigue
Headache

Predefined list of symptoms

List of differential diagnoses



Next Steps



What next?

- Add further prompts and chain them to create list of diagnostic workup from list of differential diagnoses
- Add to list of predefined symptoms. Align symptoms with terminologies such as ICD and SNOMED.

Thank you for your Attention





References

<https://www.linkedin.com/in/benaminsent>

<https://llama-reasoning-support.streamlit.app>

<https://github.com/bsent/clarifai-app>