NITRA

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Problem

We want to know if we're getting enough sleep ?

Why am I still tired even though I got enough sleep last night ?

If we continue to sleep late like this, how could it affect our health?

Solution

We decide to create a practical AI assistant focused on sleep health. This LLM is designed to provide comprehensive answers to your sleep questions

The techniques used in LLM

-RAG

PDF → Embedding → Vector → Compare → Output

-Tool Calling 🔍

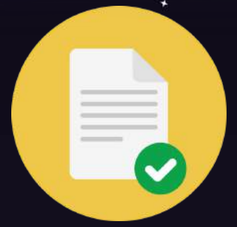
Call search tool when RAG doesn't provide enough information.

-Prompt Design

Designed to provide accurate and precise answers to questions.

System Architecture

Convert pdf to vector



Search from rag

Information

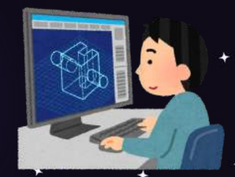
Questions

Answers

search by web search
(If RAG not enough)

Information

Future Work



We aim to develop a sleep tracking system that collects anonymized data from users to analyze sleep patterns and identify effective improvements for others with similar issues. This will evolve into an easy-to-use app that offers personalized sleep plans and health alerts when sleep habits become risky.

zzz

ช่วงถามตอบ (Q&A)

Road map of development

Start Project
04/10/2025

Develop RAG and prompt design
06/10/2025

Develop Tool Calling
08/10/2025

Test system
11/10/2025

Deploy on platform
13/10/2025

THANK YOU FOR ATTENTION

Group Member

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- Digest PDF file.
- RAG System

Aphichaet Malai 670510683
- UI
- RAG System
- Project manager

Thanaphat penpan 670510710
- Tools calling
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- Prompt Design
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