Problem statement

- I learned about Parkinson's Disease in 2021
- Before this, I had never heard of the disease and turned to the internet to learn more.
- I realized a lack of awareness surrounding this disease.
- It can be quite overwhelming to go through all the online content related to Parkinson's disease, and it takes time to grasp the exact nature of the disease.
- To simplify this process, I developed ParkinsonGPT - a RAG chatbot that utilizes cutting-edge AI technology to provide a one-stop solution for individuals seeking information on Parkinson's disease.
- This tool can catalyze spreading information, raising awareness, and potentially making a difference in the lives of those affected by the disease.

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Introduction

- **Why RAG is the best technique for ParkinsonGPT?** Because it allows me to provide the most accurate, updated, domain-specific, and context-specific information on Parkinson's Disease. This approach ensures that my responses are more reliable and have fewer hallucinations than other language models on the topic of Parkinson's Disease.

- This chatbot is inspired by ChaGPT UI where the user will enter a prompt and the answer will get populated in a large blank area.

- Chatbot also has a starter prompt to help new users, and message deletion is also available.

Features

- To reduce eye strain and fatigue, Chatbot comes with a dark UI theme.
- It's hosted online and it follows mobile mobile-friendly UI design making it easily accessible from anywhere and anytime.
- link: https://parkinsongpt.vercel.app/

Advantages

Accessibility

Scalability

Interactivity

Accuracy

Personalization

Controlflow

Front-end

The user sends a query using the form from the front end of the application. It reaches to back end via a POST request through an API.

Back-end

Vectara fetches data from the Corpora and sends it as a response in JSON format with source documetns.

Technology

ReactJS framework is been used to develop the front-end of the application.

Vectara is used with Flowise AI to build LLM workflow. I hosted Flowise workspace online and created a chat flow using Vectara vector store DB. All the data is been stored under Vectara corpus.

Future Scope

A voice-based, hands-free chatbot can make it much easier for Parkinson's patients to access as their hands usually shake due to tremours.

Thank You