



MedAI

An application for efficient medical Q&A



Project overview

- MedAI is a React and Node application designed to provide efficient medical Q&A services.
- The application's backend leverages a Python script powered by Hugging Face to process a medical dataset containing various questions and answers.
- Embeddings for the dataset are created using Cohere API and stored in QDrant.
- Whenever a user enters a question, the application triggers a prompt to find cosine similarity among the embeddings stored in QDrant and retrieve the most relevant answer.



Technologies used

MedAI was built using the following technologies:

- React: Frontend framework for building user interfaces
- Node: Backend framework for building server-side applications
- Python: Scripting language used for processing the medical dataset
- Hugging Face: Open-source library used for natural language processing tasks
- Cohere API: API used to generate embeddings for the medical dataset
- QDrant: Database used to store the embeddings



Benefits and use cases

MedAI offers several benefits and use cases, including:

- Accurate and efficient retrieval of medical information
- Helpful tool for medical professionals and individuals seeking medical information
- Potential to reduce the workload of medical professionals by automating responses to common questions



Conclusion

- MedAI offers a powerful solution for medical Q&A services, providing accurate and efficient retrieval of medical information.
- With its use of cutting-edge technologies such as Cohere API and QDrant, MedAI is at the forefront of natural language processing in the medical domain.
- Overall, MedAI is a valuable tool for medical professionals and individuals seeking accurate and reliable medical information.