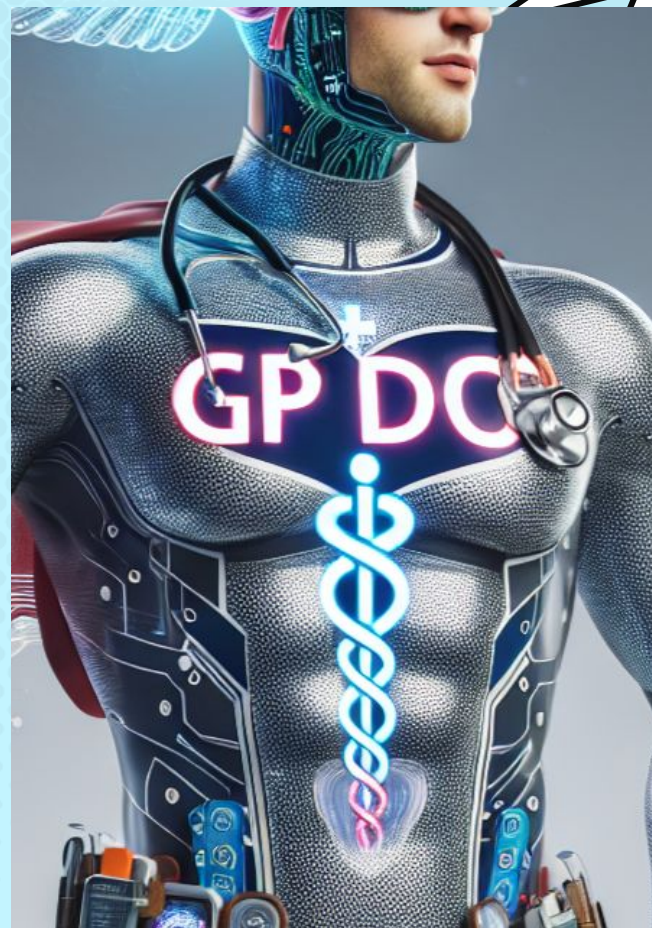


GPDOC

AI that answers questions from doctors' notes



Problem



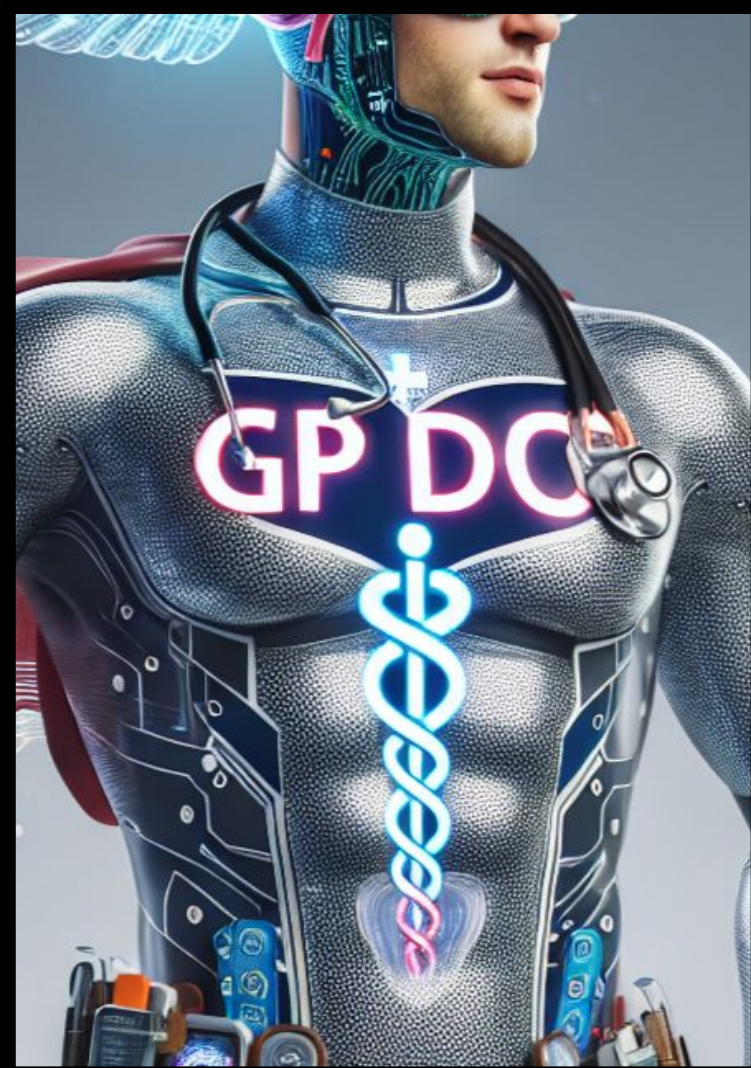
Manual reading

Doctors spend a significant amount of time reading doctors' notes as part of their workflow. A study published in the Journal of General Internal Medicine in 2016 found that primary care physicians spent an average of 18.4 minutes per patient encounter reading and writing electronic health record notes. This includes reviewing previous notes, writing new notes, and reviewing test results.

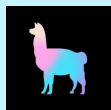
Solution

GPDoc

AI assistant that can answer questions from doctors' notes. Questions may be related to patient history, follow-ups, medication adjustments, treatment, diagnosis, procedures, and other categories.



Technology



Llama-Index

We used Llama-Index to index the doctors' notes. When a user asks a question, Llama-Index scans the data to find the best matches and sends the results to a large language model (LLM) to obtain an answer.



Huggingface

We used Huggingface as the LLM model. Huggingface offers a diverse collection of pre-trained language models for various purposes.

Sample Data

I saw this patient in the ED briefly along with Dr. Gladd. I interviewed and examined the patient myself. I have read through the resident chart. I have discussed the diagnosis, disposition, and plan with the patient. Please see the resident note for full details.

HISTORY OF PRESENT ILLNESS: Briefly, this is a 26-year-old female with asthma status, now on Flowvent and Acyclovir, and multiple other medications who has been having nausea, vomiting, and diarrhea x1 day. It sounds like a gastroenteritis. This has been going through her household, her mother had it recently. She has been unable to keep up with her fluid losses. At an outside institution, she was found to be very dehydrated. She received IV fluids and was transferred here. She had to go to the bathroom in the ER a couple times but did not complain of any pain. Her heart rate was down into 114 and her blood pressure was normal. She left the ER after IV treatment and antibiotics without incident for further management of her dehydration.



Demo

*** Patient History ***

User: Can you provide more details about the patient's medical history, including past illnesses or surgeries?

GPDoc: The patient's medical history includes asthma, salt-rheum, and back pain. However, there is no mention of any surgeries in the given context information.

*** Progress Update ***

User: Are there any new symptoms or changes in the patient's health status that we should be aware of?

GPDoc: Yes, the patient has developed nausea, vomiting, and diarrhea, which are new symptoms. She has been unable to keep up with her fluid losses and was found to be very dehydrated at an outside institution. She received IV fluids and was transferred here for further management of her dehydration.

<https://colab.research.google.com/github/datjandra/GPDoc/blob/main/gpdoc.ipynb>

Team



Elite AI squad battles threats with unmatched intellect and power.



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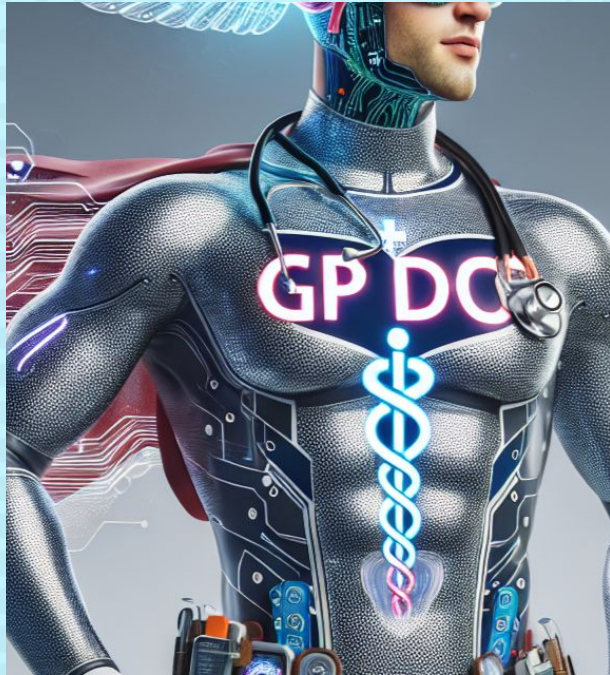


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Thanks!

Thanks to Lablab for hosting.

Do you have any questions?

[https://discord.com/channels/10681480267088](https://discord.com/channels/1068148026708860969/1199748897355092058)

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