Project: Language Model for an ENT Surgery Chatbot

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***** This project is in collaboration with Dr. Benjamin van der Woerd from Health Sciences.

Description:
Individuals who require ENT surgery often have a difficult time obtaining all relevant information about the procedures before consenting to and undergoing surgery. This means that they either consent without having sufficient information and then issues arise during or post surgery or they attempt to obtain as much information as possible during short doctor's visits and end up overwhelmed or with large amounts of superficial information. By providing a platform for patients to ask questions and receive accurate, necessary information immediately, patients will be more informed regarding their surgery and surgeons will be able to prioritize their time more efficiently.

The two goals of this project are:

1) To design and build an application or website that will provide relevant information to ENT patient. Key aspects include: requirements gathering, prototyping, user testing, and the delivery of an MVP.

2) To develop a small language model on relevant surgery information that patients can chat with to obtain information procedures. Key aspects include: an exploration and adaptation of existing language model technologies, including fine-tuning with parameter efficient/adapter methods, and integration of structured knowledge resources.