

Gloo AI Hackathon Project – AI Sunday School Teacher?

AI large language models (LLM's) are used to answer questions people pose. This includes questions about God, Christianity, the Bible and general spiritual questions. LLM's have passed bar and medical exams and demonstrated expertise on a variety of topics. People will rely on AI assistants as having authority and trained understanding of topics. Fluency in a given topic is demonstrated by correct understanding of a set of key questions. This project is to vet the current state of major LLM's for answering 10 key questions related to the Christian faith, and comparing those answers to solid written responses that a pastor or mature Christian would provide.

The web application will connect to OpenAI, Bard and Anthropic API's or use the equivalent libraries in Python that access these. The UI will allow inputting questions and expert answers; weighting of the questions; human scoring of the answers; commenting on prompts and answers; and hopes to utilize features like embeddings or cosine similarity to produce a score that compares expert answers to AI generated answers. There will be a total score or grade provided.

The application will be built with an underlying generalized framework that could be used to grade any topic and the set of related questions. As chatbots give different answers based on prompts and the dialog or set of prompts in a chat session, the tool will be built with the intent of improving the prompts and outputs after the scoring by allowing versioning of updated questions and expert answers for a given topic for rerunning of the test.

AI safety related to the authority and sanctity of thought being the domain of the greater Church is considered with this project with the belief spiritual seekers and Christians will use AI to get answers. This will give the Church an idea of what this looks like with AI most people will use, and consider how to address the results.

One consideration the project will pose is that different questions people ask AI's and the outputs can result in additional questions and answers with the AI. This could potentially go on

intended or helpful direction or potentially get a person off track in the thought process involved with faith and spiritual matters. It's not clear how to steer towards a positive dialog or mitigate the risks when people get off track.

For the Gloo AI Hackathon, a right sized MVP demonstration of the above within the event constraints will be implemented and may not have all features.