UC-120 Virtual Companion Chatbot Application

INTRO/ABSTRACT

Loneliness affects about 77% of college students at some point, highlighted by a Gitnuss report. Our project aims to mitigate this by introducing a personalized chatbot that serves as an emotional outlet for students. The application is built on a React Native frontend, employs a DistilGPT-2 language model using the QUAC dataset, and is backed by a Python server. We plan to deploy it on an Azure NC6s_v3 Cloud server, integrating Firebase Real-Time Database for Android and iOS compatibility.

METHODS

The platform consists of a React Native frontend with a Distilgbt2 LLM, a QUAC data set and Python backend. Future plans include deployment on an Azure NC6s_v3 Cloud server with the Firebase Real-Time Database. This platform with deliver a mobile app for both Android and iOS.

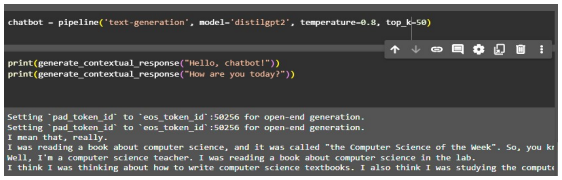
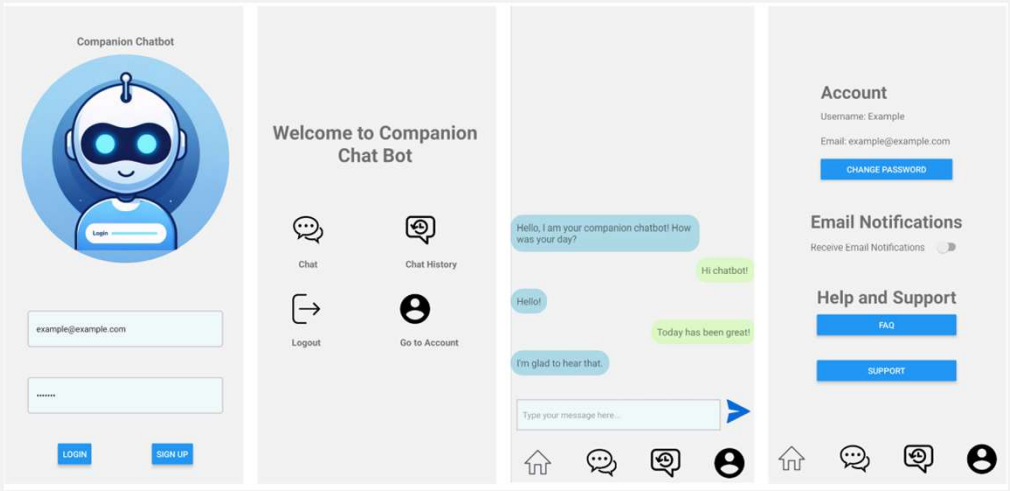


Fig.1 Prototype testing of the chatbot's responses in python. First box creates the pipeline, and second box passes an input to the large language model.

RESULTS

Our app is is ready to deploy on IOS and android, and is capable of authenticating user logins, storing user information, and interacting with the user in real-time. Future plans include cloud deployment.

Virtual Companion Chatbot Application using Large-Language Models



See the full project here!

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