CS411 Team Assignment 1 - Proposal

Team Members:
Ahmed Almehri
Shangmin Chen
Kelvin Kuang

Project Idea 1: Current events educational chatbot.
By using technologies in NLP and ML, the goal of the project is to create an interactive chatbot to summarize current events in the news and provide real-time updates tailored to a user's preferences. We will use the Diffbot API to scrape news articles for the relevant information and the Cohere API to process user inputs and to summarize news articles.

Databases:
MongoDB, store queries from user + tokens from login, username and password if user does not use OAuth to log in.

APIs:
Diffbot API - To obtain data
Cohere API - To summarize data

OAuth:
Google account, obtain token, check with mongoDB user records, create session for user.

Tech Stack:
Frontend:
React (vite)
Backend:
Python w/ Flask

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Project Idea 2: Personal Dashboard, this project will fetch articles and stories from reddit or twitter to give you an overview of what is trending currently. It will also give you the current weather and prompt a list of things you should do today by connecting to your google calendar.

Databases:
PostgreSQL for user data; MongoDB for caching articles.

APIs:
AccuWeather API
Reddit or/and Twitter API

OAuth:
Google calendar

Tech Stack:
Frontend: React
Backend: Node w/ express