

Project Proposal: News Summary

By Seida Basha and Lily Djami

Vision

We are planning to build an Android application which provides a bullet-point summary of the current news of the day. The bullet-point summary is generated using the GPT-3 model based on the content of the article, avoiding issues like clickbait titles. Having a bullet-point summary provides a quick and easy to understand overview of what is happening in the world.

Summary-generation using the GPT-3 model is a readily available technology. However this is done using Python. There is no user-friendly interface for summary generation that is available also for people without technical knowledge. Our aim with this project is to make summary-generation using GPT-3 more user-friendly and readily available by putting this technology into an Android mobile app.

Software Architecture

Our product will be built on 3 components: the mobile frontend, the backend to handle the system logic, and the GPT-3 model, which is available via API request. As stated above, we plan to use the GPT-3 model in our project, which is offered as a Python and Node.js library by OpenAI. OpenAI provides a deployment-ready GPT-3 model, which can be accessed via API calls from the backend. Our backend will be written in JavaScript using the Node.js framework. As for the mobile frontend, we will use the React Native framework, which is based on Node.js, allowing it to integrate seamlessly with our backend.

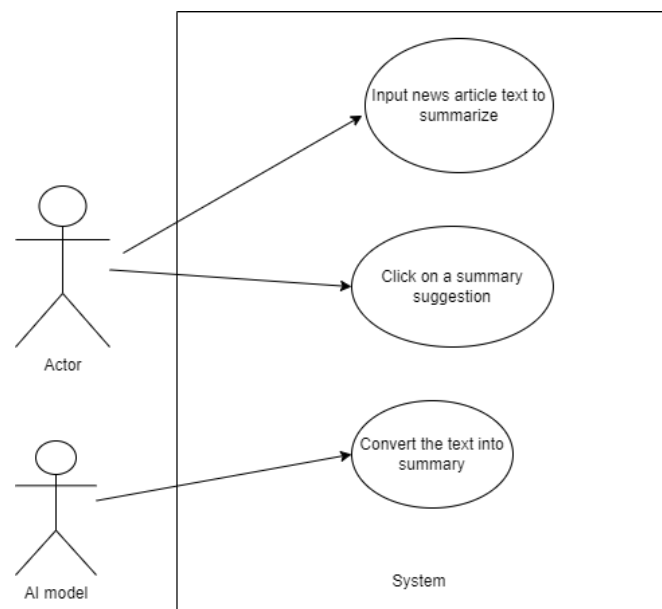


Figure 1: Use case of the news article summary

Challenges and Risks

A challenge for this project would be to integrate the GPT into a mobile app, in this case Android. However, it was previously stated that GPT is offered as a library for Node.js, so the challenge remains in the skills to be able to do so.

Another possible risk is that GPT might not produce the needed results, if it does not have proper training data. Nevertheless, there are plenty of news datasets available online, which would help with fine-tuning.