Llama 2 Large Language Model

Usability in Mobile Android Apps

Introduction

Llama 2 is an LLM (Large Language Model) developed and produced by Meta, which seemingly is the key LLM that works in with the functionality of their **Meta Ai** product. Today, LLMs are being used for a wide range of tasks, across many industries, including:

- Document generation for basic & advanced reporting on internal statistics/data/KPIs
- Chatbots for internal & external support of issues
- Data retrieval and flow to support business operations
- Financial analysis using mathematical inquiry, supported with data visualisation through coding
- Provision of healthcare advice and protocols
- Coding support for developers, students, etc

Key Points

Using large language models can be inherently useful for a wide range of applications. Llama 2, as an example, is particularly useful at generating high quality visual, and textual content. Some of the ways that Llama 2 could be integrated into a mobile Android app include:

- Virtual Assistant
    - A scheduling app that takes into account all of your current tasks, meetings, etc, Llama 2 can be used to support autonomic ordering/re-ordering of a user's schedule based on the user providing prompts and settings to the model. The model could interpret do's and don'ts, whether certain tasks can be moved or not (non-negotiables), and adjust the user's schedule accordingly so that the user can continue to meet daily obligations despite coming up against other variables.
- Initial Healthcare Proxy
    - For a GP clinic, an app that streamlines initial patient appointments and scraping of diagnostic data could integrate Llama 2 to provide initial diagnostic care. The model is capable of taking in medical data via a form, and 1:1 conversation that could assist in both pre-appointment screening for scope of care, and initial treatment as required/possible prior to seeing the GP. It could even work in with the clinic to provide prescriptions, if a doctor on the other side can approve. This would streamline low-risk patient care and optimise the clinic's ability to deal with more severe cases.
- GitHub Code Review
    - For developers, an app that produces specialised reports on code repositories would assist in streamlining the DevOps lifecycle, provide recommendations on further development, raise issues, and even potentially autonomically approve/deny fork requests and push requests based on the quality of the submission vs the overall repo objective.
- Custom Image Generator
    - Llama 2 appears to be quite good at generating high quality images. An app that takes in the input of the user, generates an image (also the

code in whatever format is required for code usage), and then hosts it online for quick, cloud-based deployment.

- Resource Mapping
    - An app that provides a front-end GUI for mapping and planning of business resources, across a range of contexts, could integrate Llama 2 to provide analyses, and map out the resources based on objective demands. This would be facilitated through the user's prompts, and ReAct reasoning whereby the model can interpret data live, and develop reasonable actions to it, in order to reduce workload of the user and streamline operations.

Conclusion

It is clear that utilizing large language models in mobile application development can accomplish a variety of business-based solutions. Using an LLM such as Llama 2 can be advantageous for businesses that need to streamline automatable tasks, smooth out the client/customer UI/UX in a key business application/website, and provide real value to the client/customer by enhancing the data collection process. AI, LLMs and the like are here to stay, and they're going to change how developers and companies do business in their respective markets. Integrating AI and/or LLMs into business processes would be highly advantageous to growth.