

## **Introduction**

Large Language Models or LLMs in short like Llama2 can help improve a lot of things when being used in mobile applications. In this case, inserting LLMs into the quiz app can help generate questions, allow for smooth language translations, better user engagement etc. This should open up applications towards the global audience.

## **Potential Improvements**

### **1. Vast Questions**

One of the better uses of LLMs in a quiz application is that the questions can be based and interchangeable depending on the user's preferred topic of quiz. For example, if the user wants a quiz on politics the LLMs can alter the questions in the application to base it on political questions. LLMs can also adjust the difficulty to user's preferences to increase the users overall enjoyment of the application to their preferred conditions. LLMs will generate any questions relating to the user's preferences.

### **2. Learning Purposes**

Quizzes are a common way to detect a user's IQ level on a certain topic hence using LLMs into quiz applications can allow users to test their knowledge in a specific topic to help them learn more on the topic. LLM-generated quizzes can also guide and explain to users on what they answered wrongly and teach them the correct answer as well. LLM quizzes can act as a digital teaching platform for users to study instead of relying on learning it through textbooks or notes which could take up time for users.

### **3. Accessibility**

With the quiz application developed with the English language, it is safe to assume that it is only accessible and interesting to the English speaking audience. This is where LLMs can help branch out to different language users. By implementing LLMs to the quiz application, this can allow users from all across the globe to use it according to their natural language. LLMs have the ability to translate any text within an application into the desired language translation. For example if a spanish user wants to use an LLM-based quiz application that was developed in the USA, LLMs can provide language options for users to partake their quiz on to allow for language transparency.

### **4. Better User Engagement**

With LLMs in quiz applications, they can help by providing a more personalized experience when using the application. This can come in many forms such as language translations, helping users to learn better on topics that the user is weak on etc. This can help users experience a better learning curve compared to other means.

## **Conclusion**

Overall, adding LLMs into quiz applications can be very beneficial to the user base and the developer themselves as LLMs have the ability to create an environment where both parties can benefit from: users can enjoy and learn from the experience while developers do not need to worry about several barriers such as language translation and quiz content. By using these benefits, quiz applications can be accessible to all parts of the world no matter the culture or language. This can provide everyone with the needs and enjoyment of learning purposes.