Develop detailed knowledge and understanding in one or more specialisms, some of which is informed by, or at the forefront of, the subject.

ADVANCED Research LO5

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# Introduction

I developed detailed knowledge and understanding how to use React framework and a pretrained AI model - Large Language Model (LLM) Meta AI.

# Development

Over the past years, I have developed also my knowledge and experience in React.js and React Native through learning and following tutorials. I focused on gaining my skills working on small projects, which helped build a solid foundation. As I progressed, I began exploring practices such as using hooks with functional components, optimizing performance, and leveraging frameworks like Expo for faster development. This year, I started developing real prototype for actual client. This role allowed me to apply my knowledge from course in real-world scenarios, including designing components, handling state management, and integrating APIs. This experience helped me to see progress which I managed to achieve.

When I started my first year of the course, I had never heard of large language models (LLMs) Creating movie recommendation system my team aimed to train a model from scratch, but due to human resource and time, we decided to use pretrained models. I explored various pretrained AI models to understand their architecture and capabilities. Over time, I learned how to fine-tune these models and integrate them into our web application. Most recently, my team applied LLaMa 3.2 to our recommendation system and enhanced its capabilities by combining it with FAISS for efficient memory retrieval.

# Conclusion

This experience has not only solidified my understanding of using advanced AI tools and react but also helped me recognize the progress I’ve made as a developer.

# References

**There are no sources in the current document.**