Now let’s summarize what we have learned in this course.

Throughout this journey, we have delved into the inner workings of the Transformer model, which forms the backbone of Generative AI with LLM.

We explored various tools, libraries, and frameworks essential for building applications around LLM, such as the Hugging Face ecosystem, LangChain, LlamaIndex, FAISS, Chroma, Tavily, Gradio, Streamlit, FastAPI, and Docker.

We successfully built four types of LLM-based applications:

* Task-specific AI Assistants
* AI Chatbot
* RAG-AI Chatbot
* Agent-AI Chatbot

Moreover, we learned how to deploy these LLM-based applications using REST API and Docker.

On the implementation side, we set up development tools and environments, gained access to Python source code for all use cases, and utilized Jupyter Notebooks for playground testing.

This comprehensive learning experience equipped us with the knowledge and skills to effectively build and deploy LLM-based applications.