Christine Jimenez

Professor Duvall

CYSE 368

23 July 2024

Reflection Paper 2

Again, for my internship I am a Generative AI Extern at Cognizant. I previously discussed my work with Python for AI throughout the first few hours of my externship, but in the weeks following I have been working on the fundamentals of Generative AI. I have worked on topics that are furthering my knowledge in Generative AI by using tools such as PyTorch and Hugging Face, the fundamentals of Generative AI, the fundamentals of deep learning, foundation models in AI, prompt tuning, full-fine tuning, and parameter-efficient fine-tuning (PEFT). When working on the fundamentals of Generative AI I learned a lot about foundational knowledge on the topic, more specifically what it is and how it is applied and I learned a lot about popular algorithms and architectures for text and image generation. This helped me a lot as I do not have too much experience in working with Generative AI.

Furthermore, I completed my second project in my externship that had to do with applying lightweight fine-tuning to a foundation model. This taught me to load and customize a Hugging Face foundation model using parameter-efficient fine-tuning, which then allowed me to harness the power of a pre-trained model for my custom task. While I have a lot less knowledge in Generative AI it has been so exciting to learn about as our world as slowly started to utilize LLMs.