

For AI, I primarily used GitHub Copilot on VS Code. I primarily used Claude 4 as the model, but also Claude 4.5 sometimes.

Most of the times, I used completion from AI, so there isn't really a lot of prompts I used.

For Task 1.5, writing a transformer for machine translation, I used the Agent Mode on Copilot. Here are some prompts I used:

- Task 1.5 says this right? This is the starting spot, Can you built the transformer based model to do this translation task instead? Implement everything in `transformer-machine-translation.py` class. I already imported some stuff there already.
- Do you think we should be creating the attention layers and stuff everything from scratch or we can use the layers from pytorch?
- If I'm using Google colab, how can I save the `eng-fra.txt` file there?
- Setting ``pad_token_id`` to ``eos_token_id``:1 for open-end generation. How can I fix this warning
- It's not doing very well. What do you recommend I change? The loss is like 8.22 to start with and only reduces by like very little.

This one was probably the most challenging part. I went a lot of back and forth and was finally able to get some good results.

I also used other prompts to convert the LSTM model to a Transformer-based model. Although I used Copilot quite a bit for this, there was a lot of back-and-forth interaction. It's a bit difficult to get things right on the first try.