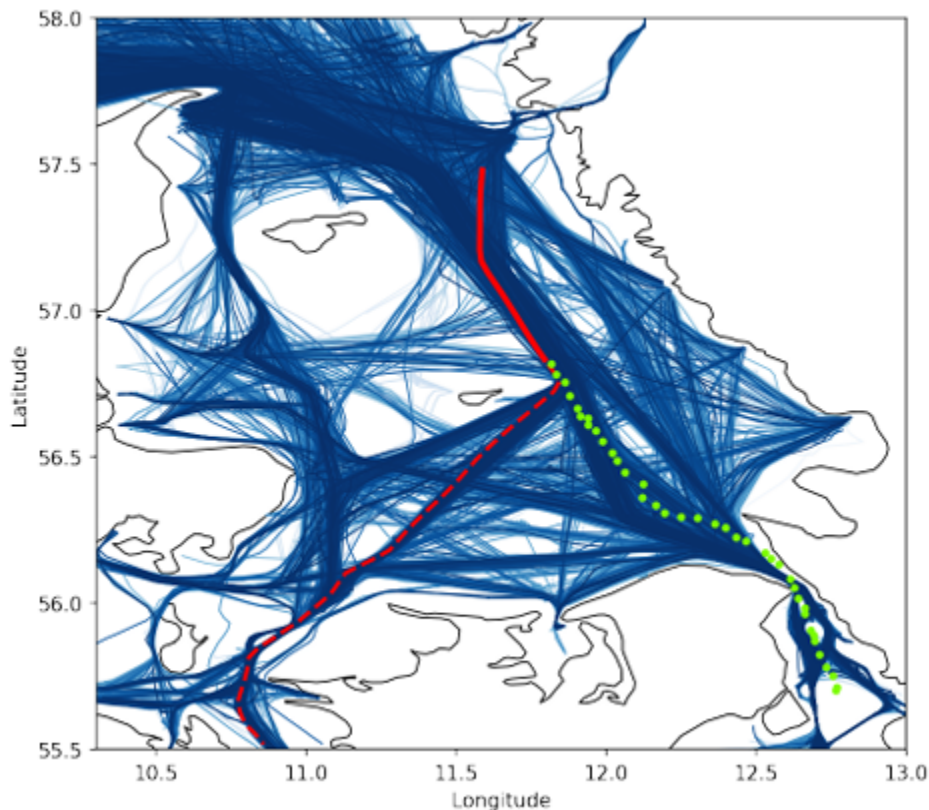


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Week 5 Summary Report

As a refresher, my research topic is the application of Large Language Models (LLM) in prediction of maritime vessel trajectories.



**Figure 1.** LLM input path in solid red, predicted output path in dotted green, and actual output path in dashed red.

This week I tried a few different things with prompt engineering using Open AI's paper [1] as a guide. I tried to use LAT, LON, SOG, COG as input, and train it to provide LAT, LON as output, but it performed horribly. So even though I don't need the LLM to predict SOG and COG, it is getting confused by having 4 features as input, and 2 as output. Other techniques from the paper did provide minor accuracy improvements, such as making sure there are line breaks between input and output.

## References

[1] Brown, Tom B. et al. "Language Models are Few-Shot Learners." ArXiv abs/2005.14165 (2020): n. Pag.