**Friday Feb 14th - with Liang (mentor)**

**Attendance: all team members**

**This Week – play around with the model to get a sense**

Each group member **presents works** on the models he/she tried:

* Illustrate how to use **model/api for Moirai-MoE (by Zhiqi) with sample code;**
* Show how to interact with **the LLM platform for GPT (by Ruobing), LangChain (by Bingqian), Deepseek (by Ruonan),** and explore several **different prompts** with the tasks;
* Each member presents **rough performance results** on threshold exceedance and slope calculation tasks for these models.

**Difficulties**:

* Zhiqi: initially tried Time-MoE model but its Github API is still in development so turn to this new model; also alert about the issue for Moirai-MoE that some model features/functions cannot be used — may need to find another model;
* Ruobing: GPT o3-mini cannot be used via API, can be used in chatbot;
* Ruonan: Deepseek is unstable due to a large number of usages these days, frequently shut down;
* Bingqian: LangChain performs so well, corresponding to last semester’s findings.

**Next week:**

* **Mentor Liang’s feedback: overall good progress, continue to improve based on current result.**
* **Liang to provide an example for adding slopes to existing data.**
* **Zhiqi to continue work on Moirai-MoE, if not work, possibly try another one — select a stable model for this project, compare results with conventional methods (consider ARIMA and Prophet models).**
* **Ruobing to try out the Columbia API key for GPT o3-mini, proceed to slope calculation.**
* **Ruonan to try out Deepseek R1, proceed to slope calculation.**
* **Bingqian to try out Langchain Pandas Agent, proceed to slope calculation.**