[**Form link**](https://docs.google.com/forms/d/e/1FAIpQLScqG543NuDmitKEqycYNpbydC5h_IlBmrskmS7gKlk5xCFP1g/viewform)

**Q: Executive Summary (Group)**: A brief overview of what has been accomplished this week.

A:

**Data Generation**

* Generate prompt optimization training dataset (BPO) (Alisa, Yanni)
* Generate fine tuning dataset for Summarization (Alisa, Yanni)
* Generate fine tuning dataset for QA (Jasper, Michelle)

**Code**

* Developed fine-tune script for summarization prompt optimization (Alisa, Yanni)
* Improved fine-tune script for summarization (Alisa, Yanni)
* Developed and Improved fine-tune script for QA (Yi)
* Evaluated fine-tune result (Yi, Michelle)

**Research**

* Prompt Optimization with black box prompt optimization (BPO)method (Alisa, Yanni)
* Lora Fine-tuning (Jasper, Yi)

**Q: Challenges and Roadblocks (Group)**: Enumerate any obstacles faced and how they were managed or are planned to be managed.

A:

**Problem**

The fine tune script did not run smoothly as it should be indicated online.

**Solution**

We tried different way of fine tuning and figured out some versions of the package used were not compatible with each other

**Problem**

The prompt optimizer model always give summary but not optimized prompt.

**Solution**

Try smaller model like Flan-T5 to train/ try to use pre trained model on similar task and add our data

**Q: Next Steps (Group)**: Outline the plan for the upcoming week.

A:

**Fine tuning:**

* Run the scripts on the new cluster
* Try another version of the Lora for fine-tuning (Q-Lora)
* Evaluate fine-tuned model

**Prompt Optimization:**

* Research and try on RLHF for qa
* Try black box approach on smaller model for summarization

**UI**

* Implement UI on displaying result

**Q: Executive Summary (Individual)**: A brief overview (one or two sentences) of what has been accomplished this week. Group coordinators collect and report the progress made by individual team members.

A:

**Yi Lu (yl5118)**: Developed and Improved fine-tune script for QA; Evaluated fine-tune result; Research on Lora fine tuning

**Yanni Chen (yc4179)**: Generate prompt optimization and summarization fine tuning training dataset (BPO); Developed fine-tune script for summarization prompt optimization and summarization; Improved fine-tune script for summarization

**Xiaolin Sima (xs2483)**: Generate prompt optimization and summarization fine tuning training dataset (BPO); Developed fine-tune script for summarization prompt optimization and summarization; Improved fine-tune script for summarization

**Junyuan Huang (jh4608)**: Generate fine tuning dataset for QA; Research on Lora fine tuning

**Michelle Sun (ms6514)**: Generate fine tuning dataset for QA; Research on Lora fine tuning