**LLM Project Ideas**

**General Project Questions:**

* What is the scope of the project?
  + How much data/prompts do we need?
  + How long is the report supposed to be?

**Our research project idea:**

Systematic comparison of different prompting techniques on different question domains

Base: Humans do respond differently on the same questions, based on framing and formulation/wording

* Define topic areas i.e. logic, mathematics, coding, moral/emotional support
* Define different prompt-techniques
  + Short, precise question
  + Long, unnecessary information
  + Long question with one important, precise question 🡪 once in the beginning vs. middle vs. end of prompt
  + “My career/life depends on it”
  + Physical consequences “I will cut off one finger”
  + Etc.
* Systematically compare LLMs answers on the different topics with different prompt-styles (each i.e. 3 runs)
* Analysis of results
  + Idea: similarity measure for the 3 runs of the same question. If high similarity, qualitatively analyze one random one of the three
  + If similarity low, dive deeper, look at all three
  + With three people and 4 (question areas) \* 15 (prompt techniques) \* 3 (runs) = 180 answers. Each one needs to qualitatively analyze 60 🡪 would be feasible

**Questions to David/Indira:**

* General opinion on research idea?
  + Which part should we dive deeper into? What is promising to investigate?
* Paper to take as foundation?
* How to measure the answers/results