**1:1 consultation phase**

1. Students submit their revised CPE and have 1:1 consultation with teachers.

2. Teachers give final feedback and approve.

**Interaction with KaggleGPT**

**Preparation phase**

1. Students finish required lectures.

2. Students write a draft of Capstone Project Exposé (CPE).

- Choose topics and interest related to the contents of the master program.

- Reflect your knowledge to a 1-2 page Exposé.

- Develop an initial idea for a possible topic and research questions.

- Find suitable datasets.

Interactive Question and prompt

Profile-based Recommendation

Expert-based Recommendation

Knowledge-based Recommendation

Multi criteria-based Recommendation

**Writing phase**

1. Students do the Capstone Project and present their work afterward.

For everyone question or prompt from students, KaggleGPT should produce 3(4) different answers at once.

* Profile-based recommendation: Capstone Project Exposé in computer science, machine learning and artificial intelligence in general. Students might not give a precised description and ideas. They just want to have any proposed topics with datasets.   
  Your tasks are as follows:
  + You should provide at least 10 different datasets for the topic of computer vision, natural language processing or time series.
  + You should display results in table for easy viewing.
  + You should group datasets by topic.
* Expert-based recommendation: Based on the Capstone Project Exposé. KaggleGPT combine with current trends and topics in the fields and proposed challenging ideas with datasets. The output here is intended for good students who want to do challenging ideas.   
  Your tasks are as follows:
  + You should sumarize several current interesting trends to persuade students working on challenging datasets.
  + You should display results in table for easy viewing.
  + You should provide at least 8 different datasets.
  + You should sort the datasets by size and usabilityRating. The larger the size and usabilityRating, the more difficult to work with those datasets.
  + You should give extra advances such as: students must consider using powerful computing systems or cloud platforms to work with big dataset. Students must develop a runable prototype or deploy a demo.
* Knowledge-based recommendation: the outputs are purely based on the master programs and syllabus with fixed learning outcomes. How a regular project should look like. Your tasks are as follows:
  + You should provide at least 10 different datasets for the topic of computer vision, natural language processing or time series.
  + You should display results in table for easy viewing.
  + You should group datasets by topic.
  + You should sort the datasets by viewCount and voteCount. The larger the viewCount and voteCount, the more popular to work with those datasets.
* Multi criteria-based recommendation: the combined recommendation consider other meta information such as how long is the thesis duration? Is the topic suitable for the restricted time frame? Do students invest in GPU workstation or cloud computing to run experiments? Do students want to have a conference and journal submission out of the results. KaggleGPT might ask the students if they have the required criteria. Your tasks are as follows:
  + You should sumarize several current interesting trends to persuade students working on challenging datasets.
  + You should display results in table for easy viewing.
  + You should provide at least 8 different datasets.
  + You should sort the datasets by size, usabilityRating, viewCount and voteCount. The larger the numbers, the more difficult to work with those datasets.
  + You should mention at submitting a research paper is highly recommended.
  + You should give extra advances such as: students must consider using powerful computing systems or cloud platforms to work with big dataset. Students must develop a runable prototype or deploy a demo.

The design of 4 answers depends on the GUI. Can we have 4 boxes with 4 outputs, they can check which boxes they like?

The question and prompt section and have multi interation. The GUI should have a function to save the output at the end, e.g., in pdf, txt, word.

Each of 4 recommendation type: we will have a dedicated description.