

# CS410 - Project Progress Report

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Main tasks and Time committed:

Tasks	Hours	Status
Environment setup	3	Completed
Data cleaning and processing	6	Completed
Multiple Model training	15	In Progress
Model selection(based on F1, recall, precision....)	6	Not Started
Classification and prediction with selected model	10	In Progress
Classification and prediction test	6	Not Started
Chatbot - front-end UI	18	In Progress
Chatbot - backend interaction with trained model	20	In Progress
Chatbot test	6	Not Started
Report and documentation	6	Not Started
<b>Total</b>	96*	-

1. Which tasks have been completed?
  - a. Environment setup: We set up our development environment, based on our own preferences. Two of our team members are using VS code and one of our members chose to use Jupyter Notebook.
  - b. Data cleaning and processing: We cleaned the dataset by deleting meaningless null data records and some other useless characters in text such as urls and numbers.
2. Which tasks are pending?
  - a. Multiple Model training: we are currently transforming the data and training our models.
  - b. Model selection: Since the models are still being trained, the selection cannot be started right now.
  - c. Classification and prediction with selected model: Not started, the reason is the same as 2a.
  - d. Chatbot - front-end UI: We are currently designing and building the chatbot UI
  - e. Chatbot - backend interaction with trained model: Since the models are still being trained, we are trying to first construct a working chatbot with dummy data
  - f. Chatbot test: Since the Chatbot hasn't been fully established yet, we cannot test it right now.
  - g. Report and documentation: This should be waited until all other tasks are finished.
3. Are you facing any challenges
  - a. No prior experience in implementing Chatbot, which proves more challenging than originally thought
  - b. Integration of different components of the project can be tricky
  - c. Since we are trying to enable the auto-reply function in Chatbot, the knowledge base from one single database may not be enough. We may have to explore more datasets to accomplish this function.