**Final Project**

**Self-determined Topic**

**Requirement：**

**30 points (10 report + 10 code/performance+ 10 presentation)**

**+ bonus points (up to 10 points)**

**Basic requirement:**

1. Clearly state that what the project is about, what problems you are going to solve, in your report.
2. Clearly state which part is your own work, which part is an implementation of other people’s idea, which part is using some existing code/examples.

List and cite all the reference resources (including books, papers, articles, webpages, codes and examples) in your report. Using existing code or work without citation/statement will be considered as plagiarism and end up with a zero score.

1. Introduce all the libraries that you used.
2. Clearly describe the machine learning algorithms or deep learning algorithms that are used in your project and the reason of selecting such models.
3. Provide necessary discussion about all parameter settings or analysis of performance change of using different hyperparameters.
4. Provide statement of “why your work is meaningful”. Of course, first of all, state that which part is “your” work.
5. Organized code with comments is one of the most important parts of grading. Instructor may randomly select partial code of your submission and ask you to explain. Failure in explaining the code may be considered as plagiarism as well.
6. Code included in submission should be “ready” to run, with proper relative path and necessary input file links. Jupyter notebook users need to submit your code in “.py” and make sure it is runnable at different platforms. Students are responsible for failure of running your code.
7. Include other support files that are helpful in grading in your full submission.

*Student who used deep learning models in your midterm project could use this project as a proposal of your final project, means that your final project could still focus on the same topic, but with improvements in all possible respects.*

**Bonus part:**

**The bonus credits are given based on how much work are shown to be your own effort, how your approach was developed and how meaningful your own work is.**

**Presentation Evaluation:**

**Peer Review**

**Each student needs to do a 6 mins presentation (4 minutes talk + 2 minutes QA) in front of the entire class and evaluate all the other students work based on their presentations and QA performance.**

**The presentation grade (0-10) of everyone will be given as the average score from the peer review.**

**Submission:**

1. **Report with proper name**

**“MidtermProject\_MyTopic\_FirstName\_LastName.pdf/doc”.**

1. **A compressed file with:**

**1, Your source code, .py files**

**2, The output files (if any)**

**3, Other files you think that helps grading (e.g. readme.txt)**