Requirements on Reports of Course Projects

General requirements:

- Each group complete one report, but each member should submit the report as the completion of the homework.
- Group members and their contributions in the project must be declared at the beginning of the report. Especially, each group should identify one member that is responsible for answering questions that may be raised for the report and experiments.
- If other people (besides the team members) have participated in the project (e.g., your graduate advisor or lab mates), their involvement and contribution must also be declared at the beginning of the report.
- The main report should be submitted as PDF files and should be of the format similar to those that can be submitted to academic journals (either in English or in Chinese). Necessary supplementary materials should be provided.

Specific requirements for each project:

Course Project 1 (Disease Classification/Detection in ECG signals):

1. You need to submit **an experiment report**. Please make sure to give clear and detailed descriptions on your algorithms in the report. Your final report should cover the training strategy, the details of your model and its performance on training and test datasets. Your need to give the average classification score U_r and final score U on both train and test datasets.

2. You need to submit the computer **code**. Your code files must be executable and contain a readme file. We may run your model and reproduce the outputs and test the score.

3. You need to submit **all the output JSON files** (both training and test dataset).

Course Project 2 (Coronary CT Angiography (CCTA) Image Segmentation):

1. You need to submit **an experiment report**. Your report should cover the details of your experimental design, model design and its performance on training and test datasets. Please report your average mIoU and Dice coefficient on both train and test datasets.

2. You need to submit the **code**. Your code must be executable and contain a readme file. We may run your model and reproduce the outputs and test the score.

3. You need to upload **the CT images and coronary segmentation files**. You can use Tsinghua Cloud and share the link for download.

Course Project 3 (Hierarchical Cell-type Classification):

1. You need to submit **an experiment report**. Your final report should cover the details of your model and its performance on ValidationSet. Report F1 scores or AUROC scores in each level in the hierarchy. Also, please make sure to give clear and detailed descriptions on your algorithms in the report, especially addressing the two key points described in "Tasks". We will mostly judge according to your algorithm designs instead of the scores.

2. You need to submit the **code**. Your code must be executable and contain a readme file. We may run your model and reproduce the outputs and test the score.

3. You need to submit **supplementary tables containing the cell type prediction results on ValidationSet and TestSet** (as "menon_train_label.csv").

Course Project 4 (Self-defined Project):

1. You need to submit **an experiment report**. Your final report should clearly identify all tasks mentioned in the proposal, provide assessment methods, cover the details of your model and show your model's performance. If you work on a problem that has existing solutions, you should provide a comparison between your model and the existing methods.

2. You need to submit the **code**. Your code must be executable and contain a readme file. We may run your model and reproduce the outputs and test the score.

Due date: Jan. 7 (Friday) 23:00 Beijing time