# Machine Learning Final Project Rules

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### **Outline**

- Intro
- Schedule
- Grading
- Report
- Github
- Bonus

#### Intro

- Three projects to choose from:
  - o <u>Intent Retrieval from Online News</u>
  - o <u>Image Dehazing</u>
  - o RSNA Pneumonia Detection Challenge (DeepQ Challenge)
- Total grade: 20%

### **Schedule**

| Date                     | Todo  | Score  |
|--------------------------|---|--|
| (4/25) 11:59:59 Thu.     | Final Project Rules Announcement  |  |
| (5/2) 11:59:59 Thu.      | Final Project Introduction  |  |
| (5/2) 23:59:59 Thu.      | Team Up Deadline  |  |
| (5/30) 23:59:59 Thu.     | Proposal/Topic Deadline   | Proposal + 1%                                      |
|                          | Early Simple Deadline   | Early Simple +1%                                   |
| (6/13) 23:59:59 Thu.     | Early Strong Deadline   | Early Strong +1%                                   |
| (6/27) Lecture time Thu. | Final Presentation (top-3)  | bonus +3%  |
| (6/30) 23:59:59 Sun.     | Final Project Ranking<br>Final Project Github Deadline<br>( Report & Github ) | Ranking (2%)<br>Pass Simple +2%<br>Pass Strong +2% |

### **Grading (Total 20%)**

- Proposal: 1%
- Report: 10%
- Beyond Early Simple before (5/30 23:59:59): 1%
- Beyond Early Strong before (6/13 23:59:59): 1%
- Beyond Simple Baseline before (6/30 23:59:59): 2%
- Beyond Strong Baseline before (6/30 23:59:59) : 2%
- Ranking: 2% (前5名: 2%, 前10名: 1%)
- Intra-group Peer Review: 1%
- note: all baselines in this page meant the public baseline

### **Grading Details - Team Makeup**

- Team Member Number: at most 4 people.
- Team-up Form: [link]
- Team name must start with 「NTU\_隊長學號」」
  - e.g. NTU\_b04901118\_好想看復仇者聯盟qq
  - o Team-up deadline 5/2 23:59:59
  - 之後於比賽平台上請一律使用team-up form中所填寫的隊名
  - 請務必以整組身份參加比賽, 若組隊遇到困難請洽助教

### Report (Total 10%)

- Introduction & Motivation: 0.5%
- Data Preprocessing/Feature Engineering: 1.5%
- Methods (At least two different methods): 2.5%
- Experiment and Discussion : 4%
- Conclusion: 1%
- Reference: 0.5%

### Report (Total 10%)

- 檔名格式需為 report.pdf
- 請以中文撰寫
- 至少6頁, 至多12頁
- 若有引用網路上別人的任何work, 請一定要標明出處, 否則以作弊論

#### **Github**

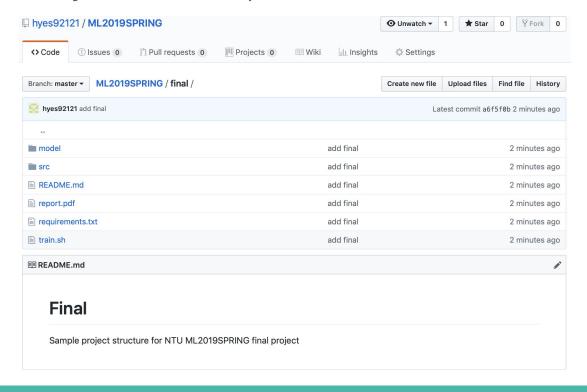
- Upload to team leader's github 'ML2019SPRING' repository only
- Directory name: final
- Master-branch only
- Github &Report Deadline: TBD
- Any Github problem please refer to: Git-Tutorials [link]
- Any Github branch/merge problem please refer to: [link]
- Any markdown syntax problem please refer to: [link]
- Any 3rd party cloud storage service upload/download problem please refer to: [link]

#### **Github**

- Directory /final should at least contain: <u>sample directory</u>
  - /src : where you put your codes
  - report.pdf: your report
  - requirements.txt: modules requirements
    - e.g. pip freeze > requirements.txt
  - README.md: your toolkit version and how to execute your codes
  - o any other models/scripts/datasets/folders ......

#### **Github**

simple directory structure sample



#### Bonus

- If you are top-3 teams in each of the task you are welcomed to give a presentation on (Date: 6/27 Lecture time)
- Presentation time: 10 min
- Bonus score: 3

## Q&A

#### proposal 要寫些什麼?如何上傳 proposal?

proposal 務必包含以下四點, 其餘不限:

- 1. 隊名及隊員
- 2. 所選擇的題目
- 3. problem study: 與此次作業相關的 paper 閱讀, 並寫出 paper 所提出的方法。( model架構、資料處理或是 training tips......相關的 paper 皆可) 最後面請務必附上 reference。
- 4. proposed method: 簡要的寫出現在的模型架構及訓練方法, 再提出之後預計使用的改進方法。

請同學將檔案存成 proposal.pdf 在 (proposal deadline) 之前上傳到隊長的 github, 路徑為/final/proposal.pdf