

Ajou University 2022 fall

# **MACHINE LEARNING PROJECT GUIDE**

# Term project

- Team of 5 members
  - Proposal (1~2 page)
  - Proposal presentation
  - Final presentation
  - Final report (max 10 pages)

# Projects

- Project proposal
  - **October 30**: Project proposal (pdf) and presentation file (ppt) due (changes not allowed after submission)
  - Proposal report: 1~2 page
  - Presentation: 5 minutes pres.+ 5 min QA per team (**Oct 31, Nov 2**)
- Final report
  - **December 6**: final report & final presentation ppt due
  - **December 7, 12, 14**: final presentation
- Evaluation Criteria:
  - Originality / Difficulty / Completeness / Presentation / Report

# Project proposal

- In your project proposal, you should write
  - The title of your project
  - Names of your group members
  - What kind of problem you are solving
  - What kind of data you will use
  - How you would solve your problem (main approach, algorithms)
  - How you will evaluate your result

# Project final report

1

## Introduction

- Background
- Describe all requirements, assumptions, risks and constraints
- Determine project goals and success criteria

2

## Data Preparation

- Describe the data you use or how you collected the data
- Exploratory Data Analysis(EDA)
- Data cleaning / pre-processing

3

## Method

- Model / Algorithm description
- You may choose different models and compare with each other
- How you set all the hyperparameters of your model

4

## Experimental Result

- Clearly analyze your result
- Specify some novel or unique findings, patterns, insights you revealed
- Evaluate and validate the model

5

## Conclusion

- Summarize what you have done in this project
- Emphasize main advantages
- Discuss about limitation

# Project evaluation

- Project score will be based on **peer-review**
- Evaluation Criteria:
  - Originality / Difficulty / Completeness / Presentation / Report
- Proportional to team **contribution**

팀명 (조번호)	이름 (본인포함)	1.아이디어	2. 구현	3. 보고서/ 발표자료	4. 팀워크	계
	계	100	100	100	100	400

\* 1~4 각 기여도 항목에 대해 팀원들의 점수 합이 100이 되어야 합니다.

(예: 조원 3인의 경우, 1.아이디어: 30/30/40, 2. 구현: ...)

\* 추가하고 싶은 의견이 있는 경우, 아래에 작성하기 바랍니다.

기타의견: