2020 Spring Ajou University

MACHIN LEARNING & DATA MINING PROJECT GUIDE

Term project

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

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:

Projects

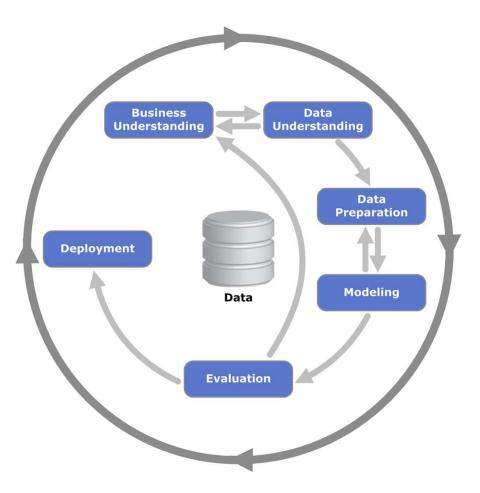
- Project proposal
 - May 15th: Project proposal and presentation file due (per team)
 - Proposal report: 1~2 page
 - (Online) Presentation: 5 minutes per team (₹3.19 ~ 5.22)
- Final report due(tentative)
 - June 18th: final report & final presentation file due
 - June 19th ~ 26th: final presentation
- 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 data you will use
 - What kind of problem you are solving
 - How you would solve your problem (main approaches, candidate algorithms)
 - How you will evaluate your solution

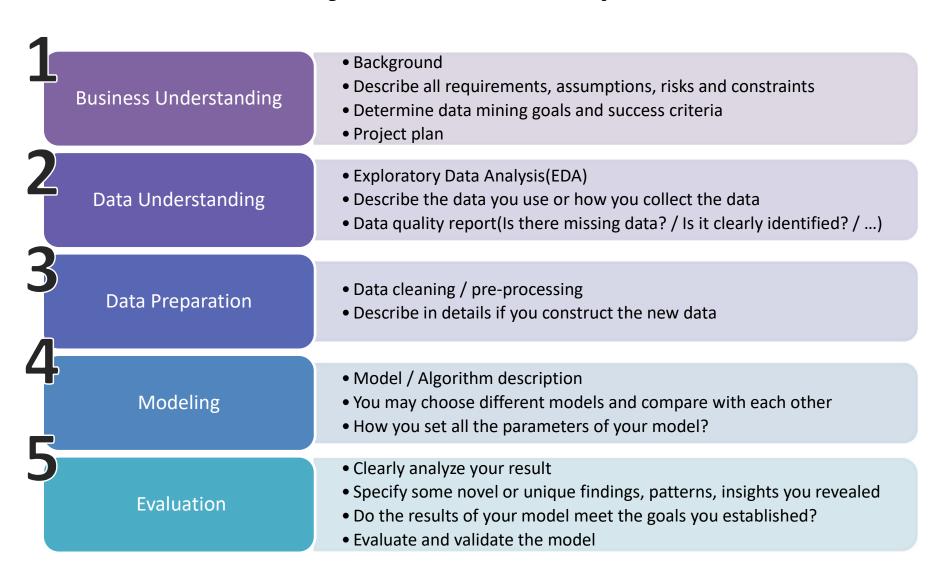
Project final report

- Standard process for data mining
 - 1. Business Understanding
 - 2. Data Understanding
 - 3. Data Preparation
 - 4. Modeling
 - 5. Evaluation
 - 6. (option) Deployment



Cross-Industry Standard Process for Data Mining(CRISP-DM) Overview

Project final report



Midterm week (May 4-8)

- There will be no mid-term exam this semester
- Instead, you will do survey on possible project ideas and available datasets
- In your report, include at least three different datasets and for each of them
 - Briefly explain the major characteristics (e.g. what kind of features, labels, how many of them, EDA, etc.)
 - Discuss what kind of problems can be addressed using the dataset
 - It can be public datasets (such UCI data repository, or Kaggle sites), or you can think of collecting your own dataset (but this should be a doable one)
 - 3-5 pages