Data Science Applications

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1. Class Information

수강반번호		교과목명	데이터과학응용	학과	컴퓨터공학	학년	대학원	학점/시수	3/3	담당교수	변영철
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2. Subject Overview

Data science is an interdisciplinary field that uses scientific methods, processes, algorithms, and systems to extract knowledge and insights from structured and unstructured data. Data science is a "concept to unify statistics, data analysis, machine learning, and their related methods" in order to "understand and analyze actual phenomena" with data. It employs techniques and theories drawn from many fields within the context of mathematics, statistics, computer science, and information science[Wikipedia]. In this class, we are going to study the way to analyze and understand the data using machine learning. Especially, we utilize the open sources in Kaggle, which is the data science community with powerful tools and resources to help you achieve your data science goals. All of the students will study and present after

selecting kernels at Kaggle for discussion. After that, a question will be given to be solved as a personal project.

3. Text

구분	저자명	서 명	출판사	발행년도
교재				
참고도서				

4. Weekly details

Week	Subject	Contents	Text
1	Introduction	What we are going to study in this class.	
2	Data Science in Kaggle	Taking a look at Kaggle for data science	
3	Self-introduction & Seminar Plan	Self-introduction and setting up the schedule of our seminar	
4	Talk #1	"Prediction"	
5	Talk #2	"Recommendation"	
6	Seminar	Presentation and discussion	
7	Mid-term exam.		

8	Seminar	Presentation and discussion	
9	Seminar	Presentation and discussion	
10	Seminar	Presentation and discussion	
11	Seminar	Presentation and discussion	
12	Seminar	Presentation and discussion	
13	Seminar	Presentation and discussion	
14	Seminar	Presentation and discussion	
15	Final exam.		

5. Personal Project and Evaluation

Title		Pages	Due date	Ev. Ratio (%)
(Problem will be given)		More then 10 pages with A4	TBA	100
Comments	Data science application development by yourself.			
Eval.	Presentation(30%) + Completeness(40%) + Difficulty & Originality (30%)			