

# (Syllabus)

2023

2

(Course Name)							(Language)	
	DATA MINING							
(Course No. - Class)	21003030 - 001		(Major)					
/ / (Credits/Theory/Practice)	3/2.0/2.0		/ / (Day/Time/Classroom)		13:30 - 15:20 ( B116)			
(Method)			(Type)					
(Specialty Competencies)	, , , , ,							
(Compency)		50 %		50 %		%		%
		%		%		%		%

(Professor)

(Name)	(Department)	(Personal Number)	(Office Number)	E - Mail
				hyparks@sookmyung.ac.kr

## 1. (Course Description & Objective)

### 1) (Course Description)

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Classification:

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Ridge and Lasso regression: Ridge Lasso . L1, L2

Support Vector Machine:

Decision Tree and Random Forest:

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2) (Course Objective)

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2. (Course Resources)

Seminar ( )	Presentation (V)	Q&A ( )	Special Lecture ( )	Field Trip ( )	Handouts ( )	Audio Video TV ( )	Team Teaching ( )
/ Discussion (V)	Small Group ( )	Problem Solving ( )	/ / Experiment Practice (V)	Case Study ( )	Computer Assisted ( )	OHP Slide ( )	Other ( )

- ( )

3. (Main Textbooks & References)

1) (Textbook)

[ISLR] James, Witten, Hastie and Tibshirani (2021), Introduction to Statistical Learning (with Applications in R), Second Edition, Springer.

( 가 : <https://statlearning.com>)

1

2) (Reference)

[DMBA] Shmueli et al. (2017), Data Mining for Business Analytics (R Edition), Wiley.

[ESL] Hastie, Tibshirani and Friedman (2009). The Elements of Statistical Learning, Springer.

[CASI] Efron and Hastie (2016), Computer Age Statistical Inference, Cambridge University Press.

4. (Assigned Books)

.R  
Galit Shmueli 4 , ..0000  
Edition)..0000 (R

- (Additional Explanation for assignments)

6. 가 (Grading Policy)

가 (Method of Evaluation)	가 (No. of Times)	가 (Content of Evaluation)	( 100%) (Weighing)
	4	- - - 23:59 , 1 50%	40.0
	1	* 1 - :	40.0
			10.0
		2 , 1 1 1 / 4 F가 .	10.0

가 1/4 F .

- (Notes) 가 (Evaluation Category)

7. (Consultation for Students Taking the Course)

/ /  
1. (3 ) , 2 가 , R  
/ : 1-2 ( 1/2, 1/2, 1/2)  
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6. Covid - 19 가

7. .

## 8. , , (Weekly Schedule)

(Week)	( / / ) (Theme)	(Method)	( ) (Pages)
1			
2	(ISLR 2) - / , / - 가 - k-		
3	(ISLR 3) - - 가 (가 , ) -		
4	(ISLR 4) - - (binary) - - (muticlass)	HW1	
5	가 (ISLR 5) - 가 - -		
6	가 (ISLR 5)		
7	(ISLR 6) - L2 (Ridge) - L1 (Lasso)		
8	(ISLR 6)	HW2	
9	(ISLR 7) - - -		
10	(ISLR 9) - -	HW3	
11	(ISLR 8.1) - - 가		

12	(ISLR 8.2) - -		
13	(ISLR 13) - 가 - The Family-Wise Error Rate - The False Discovery Rate		
14		HW4	
15			