

[ 실습 1. 타이타닉호 생존자수 추리 / Titanic: Machine Learning from Disaster ]

	A	B	D	E	F	G
1	Survived의 COUNT Survived					
2	Pclass	0	1	총계		
3					0	
4	1	80	136	216	0.6296296296	
5	2	97	87	184	0.472826087	
6	3	372	119	491	0.2423625255	
7	총계	549	342	891		

Mission \$1 / \$2 (survive rate

by Ticket Class)

Q1. 가장 생존율이 높은 티켓 등급은? (Which ticket class has the highest survival rate?)

=> 1st class

	A	B	D	E
	Survived의 COUNT Survived			
2	Sex	0	1	총계
3				0
4	female	81	233	314
5	male	468	109	577
6	총계	549	342	891

Mission \$3 (survive rate by Sex)

Q1. 여성의 생존 가능성이 더 높다고 볼 수 있나요? (Can women be considered more likely to survive?)

Rate : F : 74% / M: 18% / total : 38% => 남자보다는 높다

Q2. 전체 탑승자의 생존율은? (What is the overall occupant survival rate?)

total : 38%

각 티켓 등급에 따른 성별별 생존 가능성 예측하기 (Predicting the survivability by gender for each ticket class)

	A	B	C	E	F
Survived	COUNTA		Survived		
Pclass	Sex		0	1	총계
총계					0
1	female		3	91	94
	male		77	45	122
1	총계		80	136	216
2	female		6	70	76
	male		91	17	108
2	총계		97	87	184
3	female		72	72	144
	male		300	47	347
3	총계		372	119	491
총계			549	342	891

Raw : Pclass , Sex  
Column : Survived

[HomeWork1]

비점 '\$F\$35:\$G\$38, 2, true)

	C	D	E	
	Pclass	Name	Sex	Age
	3	0	male	22
	1	2	female	38
	3	1	female	26
	1	2	female	35
	3	0	male	35
	3	0	male	
	1	0	male	54
	3	3	male	2
	3	2	female	27
	2	2	female	14
	3	1	female	4
	1	1	female	58
	3	0	male	20
	3	0	male	39
	3	1	female	14
	2	2	female	55

0 : Mr.

1: Miss.

2: Mrs.

3: Master or Dr. or etc.

[HomeWork 2 ]

Classification: 가중치점수 설정 위해 피벗테이블로 확인한 수치

1.SepalLengthCm Setosa versicolor virginica

4.3-4.8	11	0	0
4.9-5.8	22	18	5
5.9-7.9	0	18	26

2.SepalWidthCm Setosa versicolor virginica

2.2-2.8	1	21	12
2.9-3.8	27	15	19
3.9-4.4	5	0	0

3.PetalLengthCm Setosa versicolor virginica

1-1.9	33	0	0
3-4.9	0	34	5
5.2-6.9	0	2	26

4.PetalWidthCm Setosa versicolor virginica

0.1-0.6	33	0	0
1-1.7	0	35	1
1.8-2.5	0	1	30

virginica	SepalLengthCm	from	to	점수
		0	5.1	3
		5.1	6.5	10
		6.5	15	4
	SepalWidthCm	from	to	점수
		0	2.8	5
		2.8	3.4	1
		3.4	15	5
	PetalLengthCm	from	to	점수
		0	1.9	0
		1.9	4.9	3
		4.9	15	4
	PetalWidthCm	from	to	점수
0		1	25	
1		1.8	3	
1.8		15	25	

virginica	SepalLengthCm	from	to	점수
		0	4.8	0
		4.9	5.8	4
		5.9	8	10
	SepalWidthCm	from	to	점수
		2.2	2.8	7
		2.9	3.8	8
		3.9	5	0
	PetalLengthCm	from	to	점수
		1	1.9	0
		2	4.9	3
		5	15	12
	PetalWidthCm	from	to	점수
0		0.9	0	
1		1.7	4	
1.8		15	17	

setosa	SepalLengthCm	from	to	점수
		0	5.1	5
		5.1	6.5	7
	6.5	15	9	
	SepalWidthCm	from	to	점수
		0	2.8	15
		2.8	3.4	22
	3.4	15	34	
	PetalLengthCm	from	to	점수
		0	1.9	11
		1.9	4.8	1
	4.8	15	5	
	PetalWidthCm	from	to	점수
0		1	12	
1		1.8	1	
1.8	15	6		

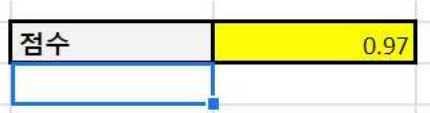
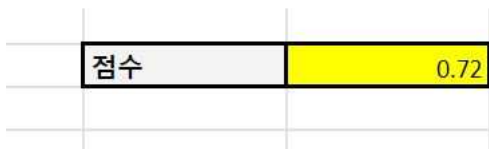
setosa	SepalLengthCm	from	to	점수
		0	4.8	7
		4.9	5.8	10
	5.9	8	0	
	SepalWidthCm	from	to	점수
		2.2	2.8	1
		2.9	3.8	10
	3.9	5	3	
	PetalLengthCm	from	to	점수
		1	1.9	20
		2	4.9	0
	5	15	0	
	PetalWidthCm	from	to	점수
0		0.9	20	
1		1.7	0	
1.8	15	0		

versicolor	SepalLengthCm	from	to	점수
		0	5.1	10
		5.1	6.5	12
	6.5	15	10	
	SepalWidthCm	from	to	점수
		0	2.8	14
		2.8	3.4	15
	3.4	15	13	
	PetalLengthCm	from	to	점수
		0	1.9	3
		1.9	4.9	8
	4.9	15	1	
	PetalWidthCm	from	to	점수
0		1	9	
1		1.8	3	
1.8	15	1		

versicolor	SepalLengthCm	from	to	점수
		0	4.8	0
		4.9	5.8	8
	5.9	8	8	
	SepalWidthCm	from	to	점수
		2.2	2.8	9
		2.9	3.8	8
	3.9	5	0	
	PetalLengthCm	from	to	점수
		1	1.9	0
		2	4.9	15
	5	15	1	
	PetalWidthCm	from	to	점수
0		0.9	0	
1		1.7	29	

작업 전 자료

작업 후 분류별 가중치



작업 전 정확도

작업 후 정확도