

[https://www.kaggle.com/yungbyun/  
female-male-classification-ml-simple](https://www.kaggle.com/yungbyun/female-male-classification-ml-simple)

키  
몸무게  
발 크기  
학년  
성별



번호, 키, 몸무게, 발 크기, 학년, 성별

1,166,57,240,1,0  
2,178,92,265,1,1  
3,167,80,270,1,1  
4,168,52,245,2,1  
5,155,60,235,2,0  
6,163,45,230,2,0  
7,160,53,235,3,0  
8,180,77,260,4,1  
9,167,71,260,2,1  
10,160,51,245,2,0  
11,162,53,240,2,0  
12,180,82,280,6,1  
13,172,90,255,6,1  
14,160,51,245,5,0  
15,155,66,245,5,0  
16,163,54,242,5,0  
17,177,88,263,5,1  
18,166,82,268,6,1  
19,170,53,247,6,1  
20,154,59,234,1,0  
21,164,47,232,1,0





• 데이터 **읽**어 오기



• **시**각화하기(visualization)



• 학습용, 테스트용으로 **나**누기

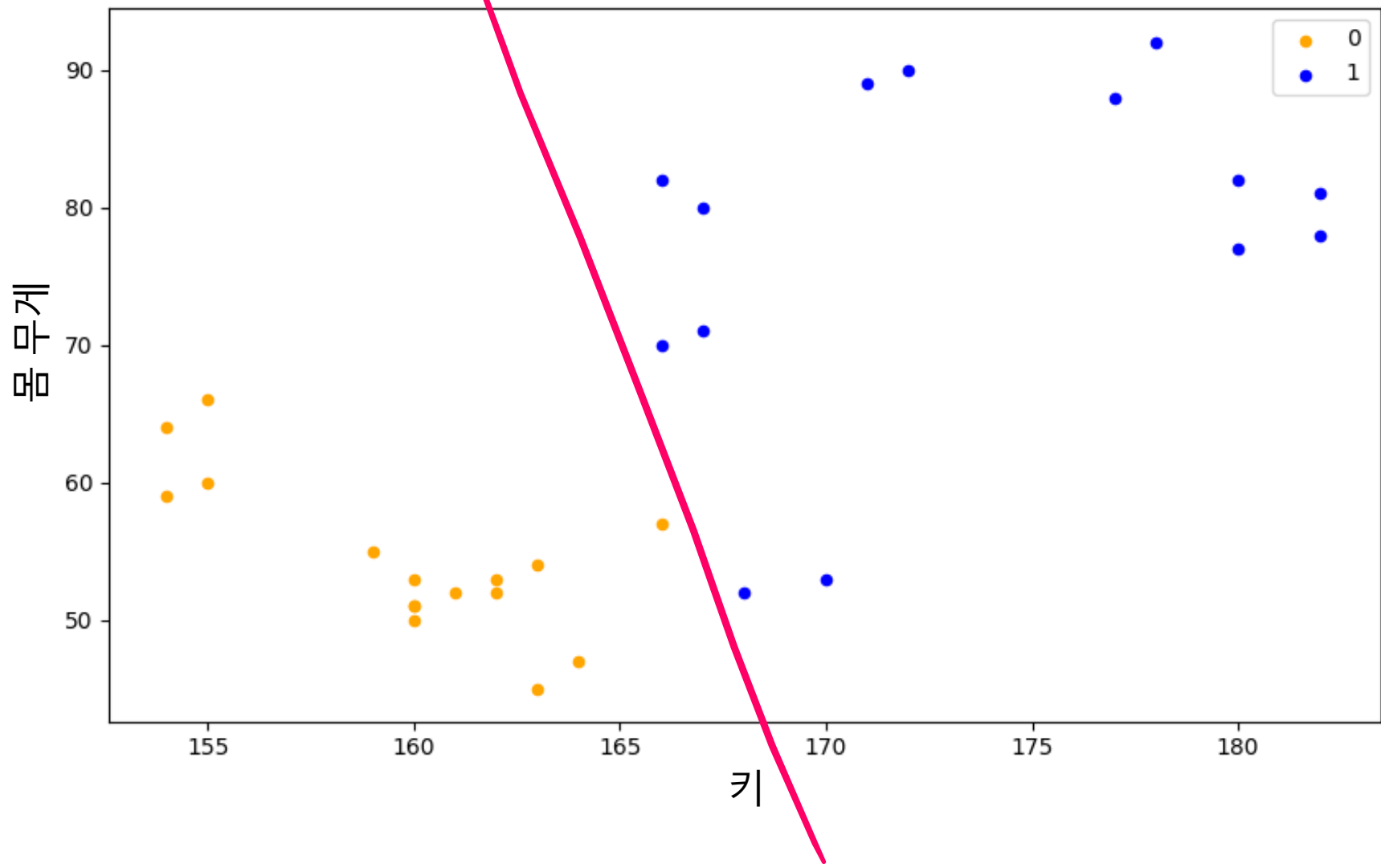


• 머신러닝 모델 **학**습시키기



• **테**스트해보기(예측, 분류)

분류



키, 몸무게, 발 크기, 학년, 성별

166,57,240,1,0  
178,92,265,1,1  
167,80,270,1,1  
168,52,245,2,1  
155,60,235,2,0  
163,45,230,2,0  
160,53,235,3,0  
180,77,260,4,1  
167,71,260,2,1  
160,51,245,2,0  
162,53,240,2,0  
180,82,280,6,1  
172,90,255,6,1  
160,51,245,5,0

학습용  
문제

학습용  
정답

train, test = split(data\_f)

155,66,245,5,0  
163,54,242,5,0  
177,88,263,5,1  
166,82,268,6,1  
170,53,247,6,1  
154,59,234,1,0  
164,47,232,1,0

테스트용  
문제

테스트용  
정답



키, 몸무게, 발 크기, 학년, 성별

학습용  
문제

166,57,240,1,	0
178,92,265,1,	1
167,80,270,1,	1
168,52,245,2,	1
155,60,235,2,	0
163,45,230,2,	0
160,53,235,3,	0
180,77,260,4,	1
167,71,260,2,	1
160,51,245,2,	0
162,53,240,2,	0
180,82,280,6,	1
172,90,255,6,	1
160,51,245,5,	0

```
gildong = DecisionTreeClassifier()
```

```
gildong.fit('학습용문제', '정답')
```

```
prediction= gildong.predict('테스트용 문제')
```

학습용  
정답


테스트용  
문제

155,66,245,5,	0
163,54,242,5,	0
177,88,263,5,	1
166,82,268,6,	1
170,53,247,6,	1
154,59,234,1,	0
164,47,232,1,	0

테스트용  
정답

[https://www.kaggle.com/yungbyun/  
plant-diary-ml-simple](https://www.kaggle.com/yungbyun/plant-diary-ml-simple)



나만의 메리골드 

날짜	길이 (전체)	너비	길이 (앞다리)
2019.06.16	0	0	0
2019.06.20	1.6cm	0.28cm	0.9cm
06.22	2.6cm	3.8cm	1.4cm
6.25	<del>3.0</del> 3cm	4.6cm	1.6cm
2019.6.29	4.4	<del>5.8</del> 5.8cm	2cm
	<del>5.0</del>	0.58cm	
	5.0	0.6	2.2

① 큰따옴표

2019.06.16	0	0	0
2019.06.20	1.6cm	0.28cm	0.9cm
2019.06.22	3.3cm	4.5cm	1.5cm
6.25	3.5cm	5cm	1.8cm
6.29	5cm	0.65cm	2.5cm

② 둥근따옴표

날짜	길이	너비	길이
6.16	0	0	0
6.20	12mm	2.9mm	8mm
6.22	25mm	4.5mm	13mm
25	31mm	5.5mm	15mm
6.29	45.5mm	60mm	19mm

③ 세기표

지난날짜, 키, 잎 너비, 잎 길이, 주인

1, 0, 0, 0, 1

1, 0, 0, 0, 2

1, 0, 0, 0, 3

5, 16, 28, 9, 1

5, 16, 2.8, 9, 2

5, 12, 2.9, 8, 3

7, 33, 4.5, 15, 1

7, 26, 3.8, 14, 2

7, 25, 4.5, 13, 3

10, 35, 5, 18, 1

10, 30, 4.6, 16, 2

10, 31, 5.5, 15, 3

14, 50, 6.5, 25, 1

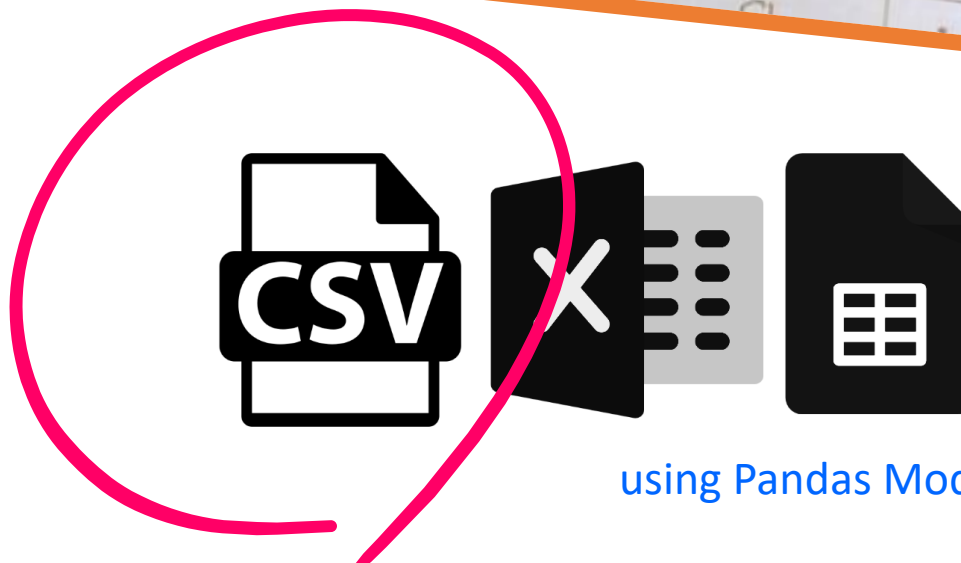
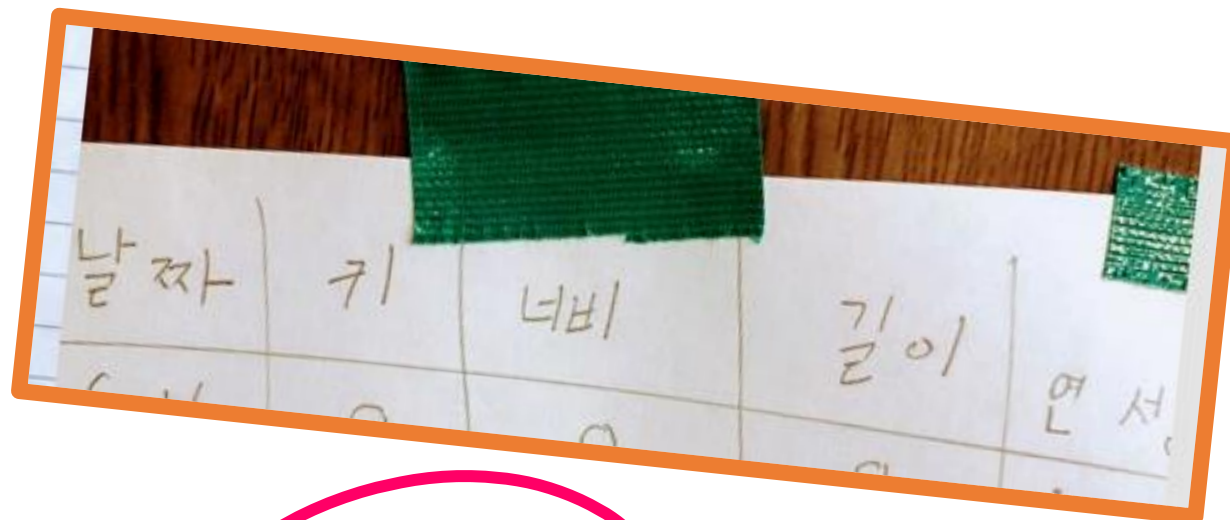
14, 44, 5.8, 20, 2

14, 45.5, 6, 19, 3

20, 56, 6.8, 27, 1

20, 50, 6, 22, 2

20, 51, 6.5, 21, 3



using Pandas Module

지난날짜 vs. 앞 너비

