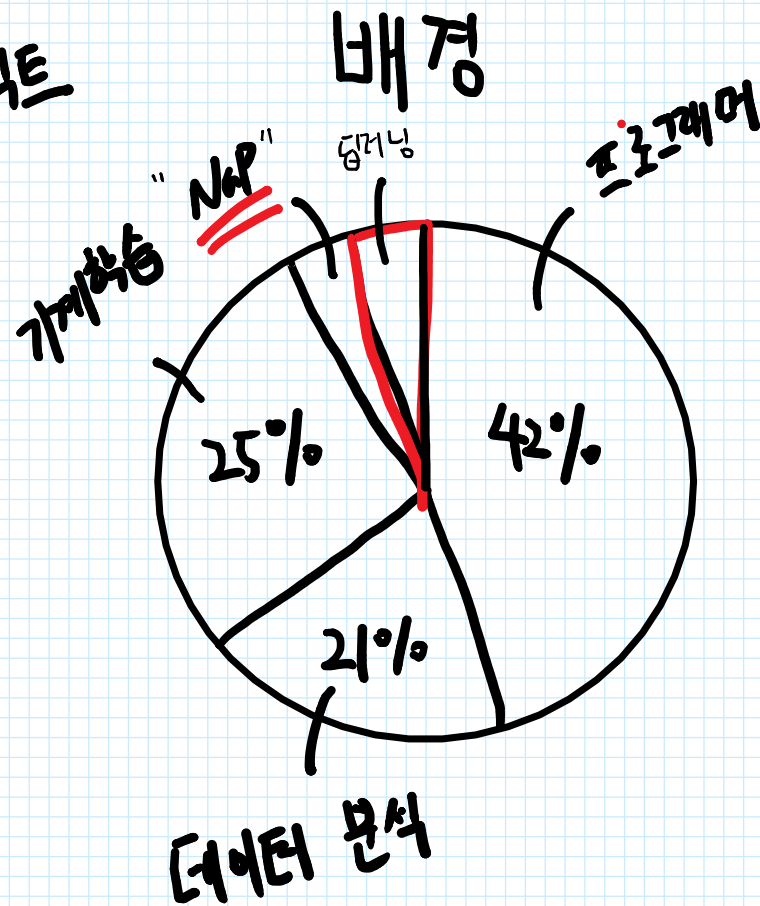
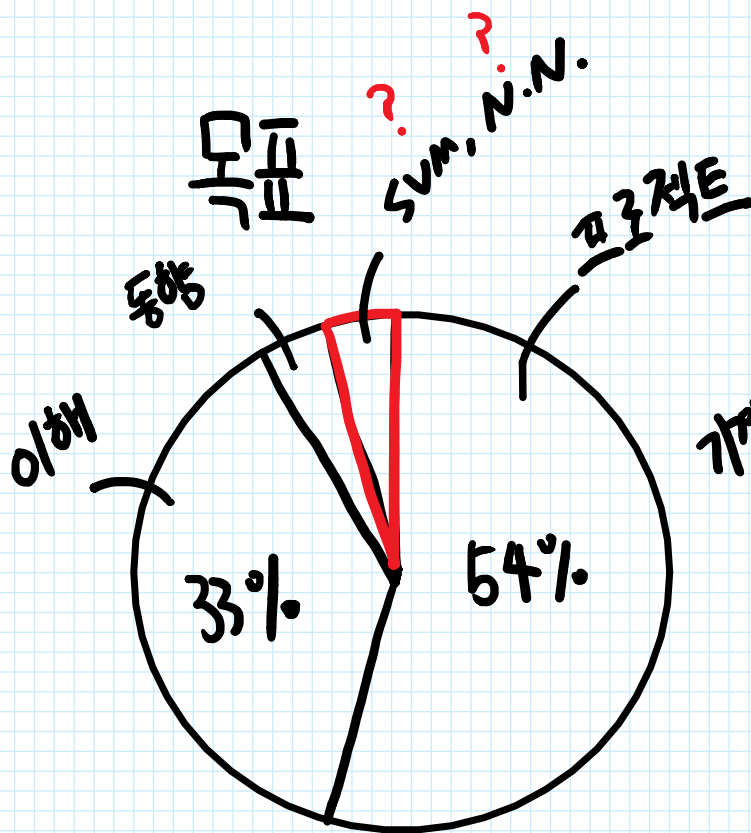


Machine Learning feat. Python

by 이성주



NumPy "np"

ndarray "다차원 배열"

" n -차원"

텐서

np.where (bool 배열, TV, FV)

e.g. [T, F], 1, 0

↓ ↓
[1, 0]

$$\begin{matrix} X & Y & XY \\ \begin{bmatrix} 1 & 1 \\ 2 & 2 \end{bmatrix} & \cdot \begin{bmatrix} 1 & -1 \\ -1 & 1 \end{bmatrix} & \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix} \end{matrix}$$

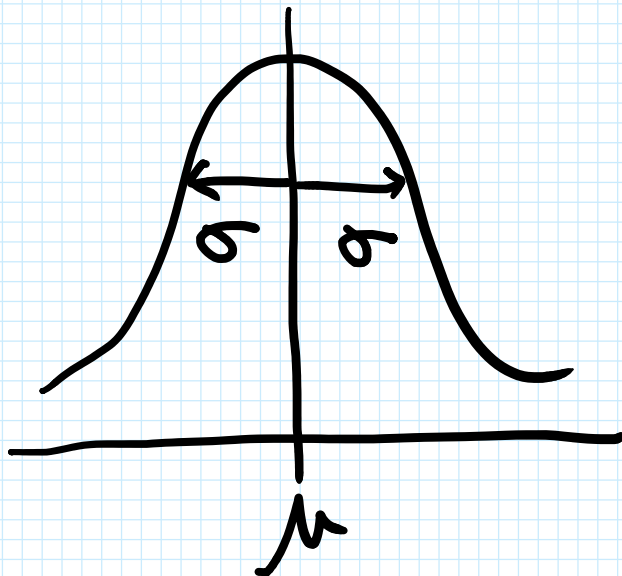
(Note: Red arrows in the original image point from the first row of X to the first row of Y, and from the first column of Y to the first column of XY.)

$$\begin{matrix} X \neq Y \\ \begin{bmatrix} 1 & -1 \end{bmatrix} \end{matrix}$$

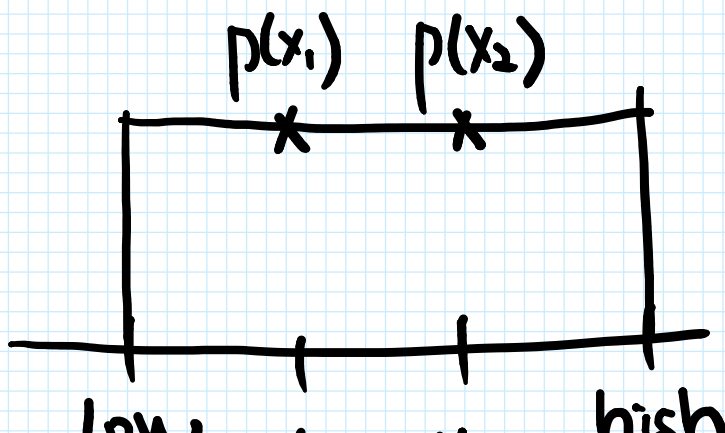
$$\begin{bmatrix} 1 & -1 \\ -2 & 2 \end{bmatrix}$$

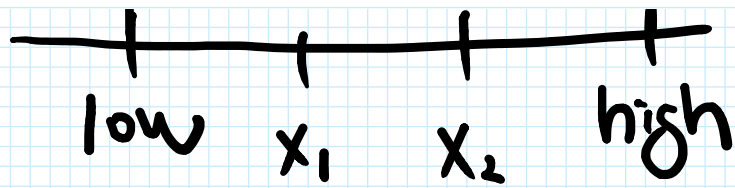
np.random

.normal (평균, 편차, size = 형상)

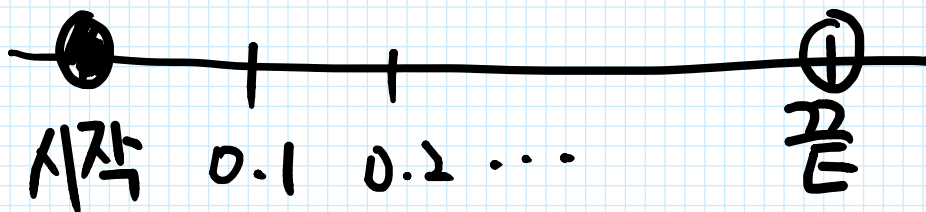


.Uniform (low, high, size = 형상)

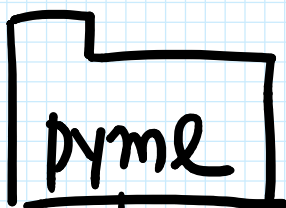
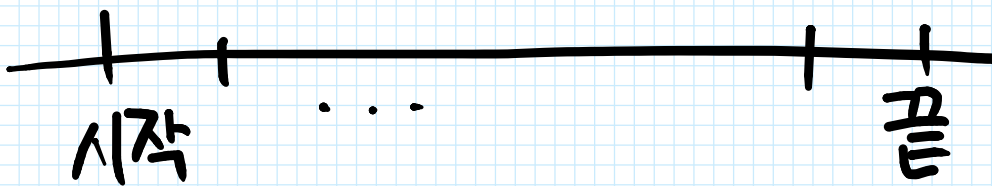




`np.arange(시작, 끝, 간격)`



`np.linspace(시작, 끝, 구간개수)`



Day 1 intro

Day 1.ipynb

data

iris.data
⋮

iris.data

5.1, ...

TEXT

Memory

5.1, ...

pd.read_csv()

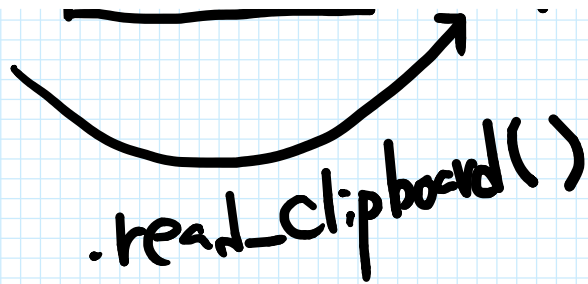
DataFrame

DataFrame

.CSV

5.1, ...

OS


.`read_clipboard()`

`train_test_split(X, y, random_state)`

`sklearn.datasets`

Bunch "쿠키" 