Train Test

Tuesday, April 5, 2022 10:01 PM

Transformation

One Hot → Ocean proximity

Simple Imputer + StandardScaler → all except Ocean proximity

[8 10 12] Normalization

8 — 0

12 — 1

[100, 200, 300] → [0, 1] transform

x	y
height	weight
5	10
8	20
20	40
50	70

x → model → y weight

Preprocess

ONEHOT

One Hot

mark	Grade
50	D
70	C
80	B

→

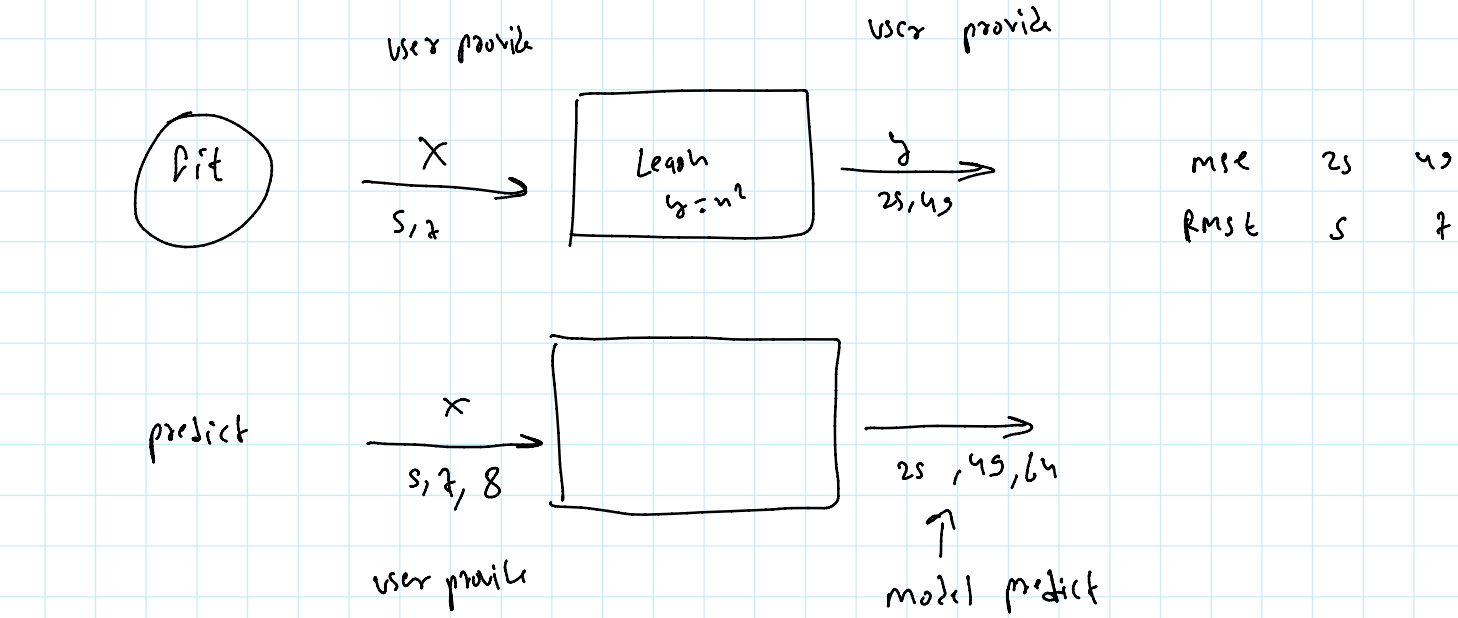
mark	Grade-A	Grade-B	-C	-D
50	0	0	0	1
70	0	0	1	0
80	0	1	0	0

80	B
95	A

80	0	1	0	0
95	1	0	0	0

Fit predict

X	$y = x^2$
5	25
7	49



Metric

metric → how model is performing

$$\text{accuracy} = \frac{\#\text{correct}}{(\#\text{correct} + \#\text{wrong})}$$

weight	wrist	predict
5.3	60kg	Sg.Ssicg

MSE

$$\text{error} = \frac{(\text{actual} - \text{predicted})^2}{n}$$

$$\text{RMSE} = \sqrt{(\text{Actual} - \text{predict})^2}$$

$$RMSE = \sqrt{\frac{(Actual - Predict)^2}{n}}$$

Test Train Split

Teacher
Student

5Q

2 + 2 = 4 ✓

2 + 3 = 5 ✓

3 + 7 = 10 Test

10 + 11 = 21 ✓

9 + 4 = 13 Test

5 Learn | 2 Test

3 Learn | 2 Test

train | validation

Test score | Logic