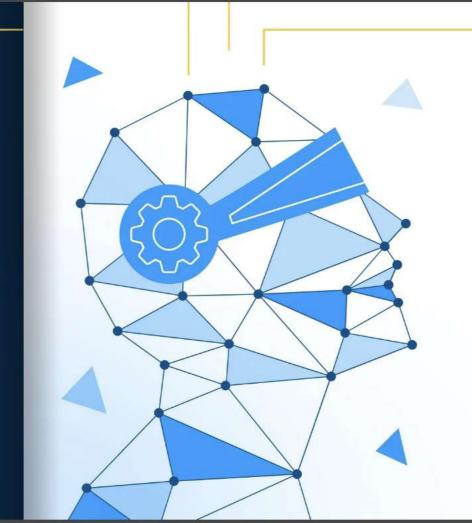


Data Preprocessing



The Machine Learning Process

The Machine Learning Process





Data Pre-Processing

- · Import the data
- Clean the data
- Split into training & test sets
- Feature Scaling



Modelling

- Build the model
- · Train the model
- Make predictions



Evaluation

- Calculate performance metrics
- Make a verdict

Training Set & Test Set



Training Set & Test Set

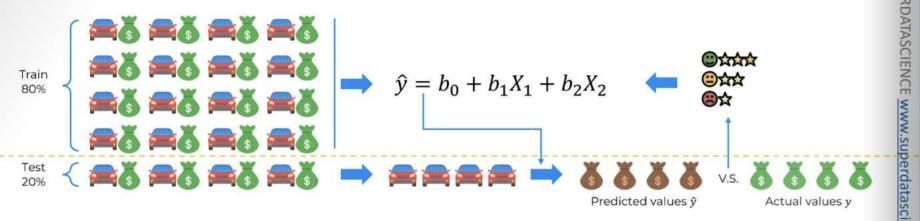














Feature Scaling

Feature Scaling



Feature Scaling



(1		X2	Х3	X4
5	179.43	56.784	34.6181	3.55
5	641.87	62.054	47.7306	1.692
5	556.30	64.13	55.596	1.559
5	578.47	63.377	52.7121	1.679
5	591.16	61.553	46.1315	1.984
5	242.03	58.29	39.2952	2.942
5	364.66	59.93	42.4628	2.494
5	190.68	57.271	36.2725	3.419
5	547.23	63.763	54.1971	1.634
5	359.69	59.375	41.5105	2.128
5	438.08	60.484	43.493	2.47
5	637.17	62.525	49.428	1.725

Normalization

$$X' = \frac{X - X_{min}}{X_{max} - X_{min}}$$

[0;1]

tandardization

$$X' = \frac{X - \mu}{\sigma}$$

$$[-3;+3]$$

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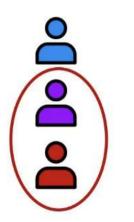
Feature Scaling



Feature Scaling







70,000 \$
60,000 \$
52,000 \$



malization

$$X' = \frac{X - X_{min}}{X_{max} - X_{min}}$$

Feature Scaling



Feature Scaling





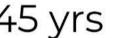








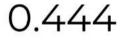






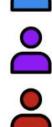








45 yrs



60,000\$ 52,000 \$



45 yrs 44 yrs 40 yrs



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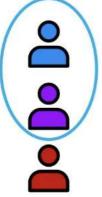
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Feature Scaling









0.444

0.75

