Feature Engineering

Feature Extraction

Feature Extraction is process of selecting and extracting the most important feature from now data.

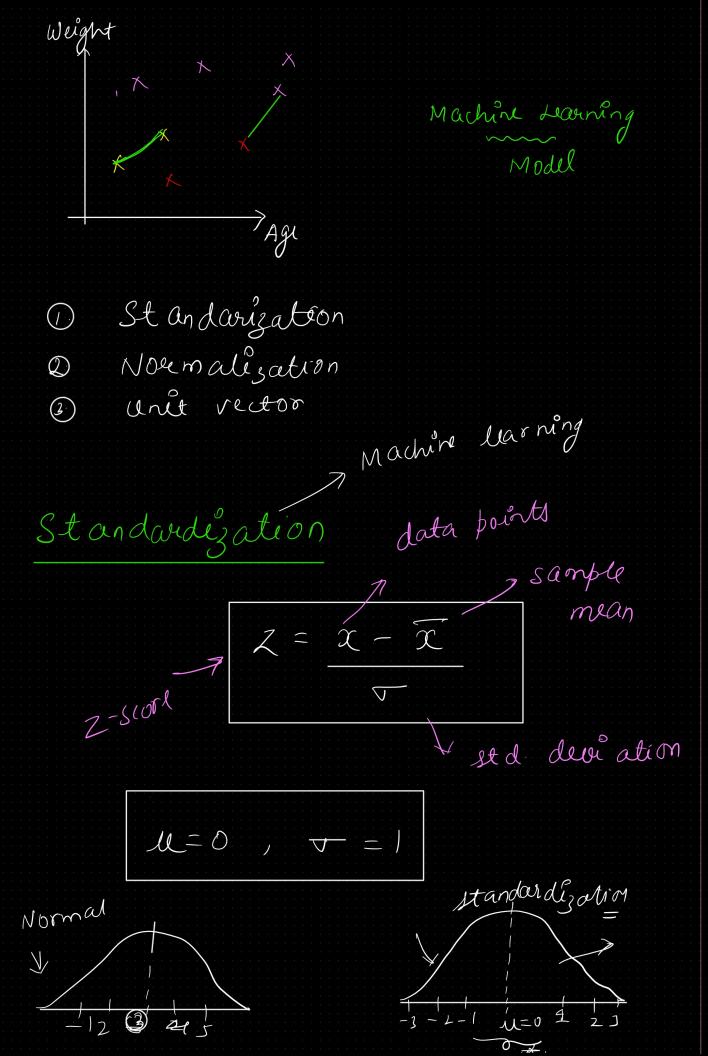
ML Application -> 1000 features

Most Important featury

Machine Learning Algorithm

- O Feature Scaling
- @) Feature Selection

Flo	ture scali	$\sim g$	
Age	(KG) Weight	Height	ВМІ
32	70 \$D	140 cm	
3 5	90	170cm	



A Deptearing [Images] D Normalization [Min Max Scaler] [0 to [] Transformation Age [O,1] 25 26 ムナ 28 oc scaled $=\chi -\chi m_{n}^{o}$ Imax - Xmin

(3) Unit Vector
$$\Rightarrow \hat{u} = \text{magnitude} = \frac{1}{||\hat{u}||}$$

Vector $\Rightarrow \text{magnitude}$

$$\vec{\alpha} = (3,4)$$

$$||\vec{\alpha}|| = \sqrt{3^2 + 4^2}$$

$$= \sqrt{9 + 16}$$

$$= \sqrt{25} = 5$$

$$||\vec{\alpha}|| = (5)$$

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