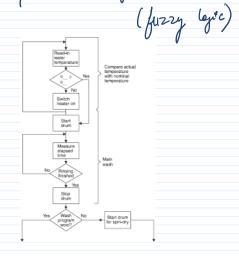
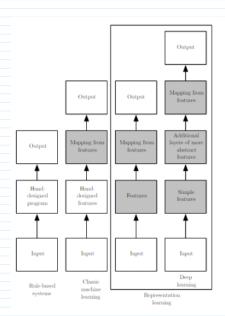
Autificial Intelligence 3—
(AI)

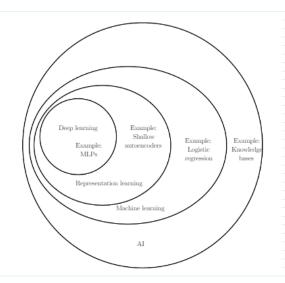
list of formal, mathematical rules.

Example: knowledge bases.



AI_Ub_ML/al:-

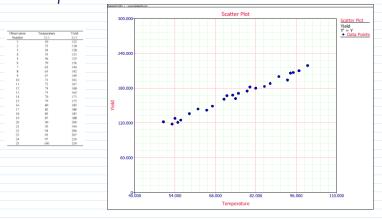




Linear Repression ? -

explains the relationship between two or more variables why a straight line.

Examples-



X= input variable

Yi= output variable

M = # of training examples

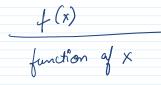
ye, gie
hypothen's functions. (+) grun predicted.

$$\hat{g} = f(x) = \omega x + b$$

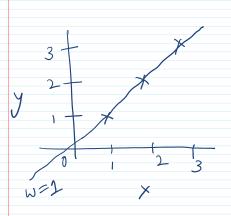
$$\hat{y}_i = f(x_i) = Wx_i + b$$

$$J(w,b) = \frac{1}{2m} \sum_{i=1}^{m} (y_i^{\lambda} - y_i^{\lambda})^2$$
error

Goal: - Find best ω, b such that $Cost \ \mathcal{I}(\omega, b)$ is including min $\mathcal{I}(\omega, b)$



J(W), b=0
function of w



3+ J(W) 1 1 0 | W 2 3

$$\mathcal{J}(\omega) = \mathcal{L} \sum_{i=0}^{m} (\hat{y}_{i} - y_{i})^{2}$$

$$\mathcal{J}(\mathbf{i}) = \mathcal{L} \sum_{i=0}^{m} (\hat{y}_{i} - y_{i})^{2}$$

$$= \mathcal{L} (o^{2} + o^{2} + o^{2})$$

$$= 0$$

