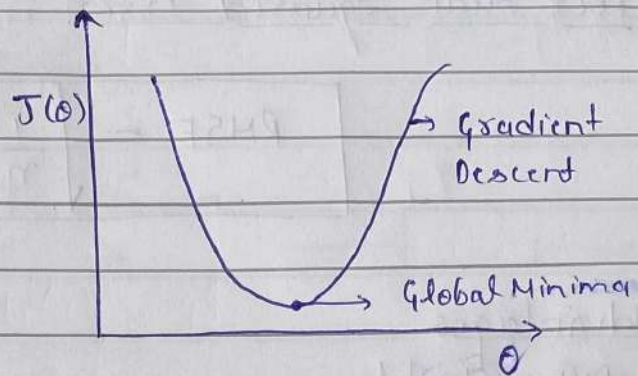
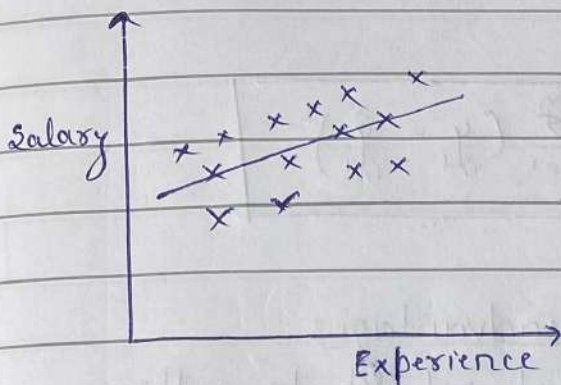


MSE, MAE & RMSE



* Mean Squared Error :

$$MSE = \frac{1}{n} \sum_{i=1}^n (y_i - \hat{y}_i)^2$$

Advantages

- Differentiable
- It has only one local and global minima

Disadvantages

- Not robust to outliers
- It changes its unit

* Mean Absolute Error :

$$MAE = \frac{1}{n} \sum_{i=1}^n |y_i - \hat{y}_i|$$

Advantages

- Robust to outliers
- It will be in same unit

Disadvantages

- Convergence takes more time
- Optimization is a complex process.

* Root Mean Squared Error :

$$\text{RMSE} = \sqrt{\frac{1}{n} \sum_{i=1}^n (y_i - \hat{y}_i)^2}$$

Advantages

- Differentiable
- It has only one local and global minima.
- It will be in same unit.

Disadvantages

- Not robust to outliers.