1)MSE = Moon Square Evron 2) R2 on Rsquare (Coefficient of Determinant) Rograssion line.

SSR R-SSR SSR+SSE SST SSR = Sum square Rosidual. = \frac{7}{2} - \frac{4}{3}^2 SST = Sum square Total= SSE: Sum square Evror =  $\Xi(y_1 - y_2)^2$ Higher the p2 better is the model. Aparl from MSE, R' is also an good Cost fur char for MSE Cost function is collection of Burons For now we only have I torm is our Cost function. other:

1) MSE

2) RMSE

3) R<sup>2</sup> 5) MAPÉ - JMSE 4) Adjusted R<sup>2</sup>

Adjusted  $R= \left[\frac{(1-R^2)(N-1)}{N-|2-1|}\right]$ R2 = Raquero of Coeff of determinant N= No. of importances / rower Mathematically it is possible to Adjusted R2 to Bei-vo. But in start case our R2 is very be-vo. Here we can discard the model on it is of no use. MAPE = Mean obsolute percentage

everor: production:  $= \frac{1}{m} \left( \frac{\hat{y} - \hat{y}_{i}}{2} \right) \times 100$ 

= Talled

$$\frac{1}{3} = \frac{1}{2}$$

$$\frac{1}{2}$$

$$y = mx + C$$

$$x = (C_{11}x_{11}x_{21}x_{11} - ..., x_{1n})$$

$$y = C + Q_{11}x_{11} + Q_{21}x_{11} - ...$$

$$Q_{1}$$

$$Q_{2}$$

$$+ Q_{11}x_{11}$$

$$MSE(0) = Mean squar Smon$$

$$= \int_{1}^{\infty} \left( \frac{\hat{y} - \hat{y}_{1}}{y} \right)^{2}$$

(1000) = 109 Limit python in 107 Calculations in 1sec. (1000, 1) equation = 100 sec (10,000,1) =  $\frac{10}{107} = \frac{10,0000}{3600}$