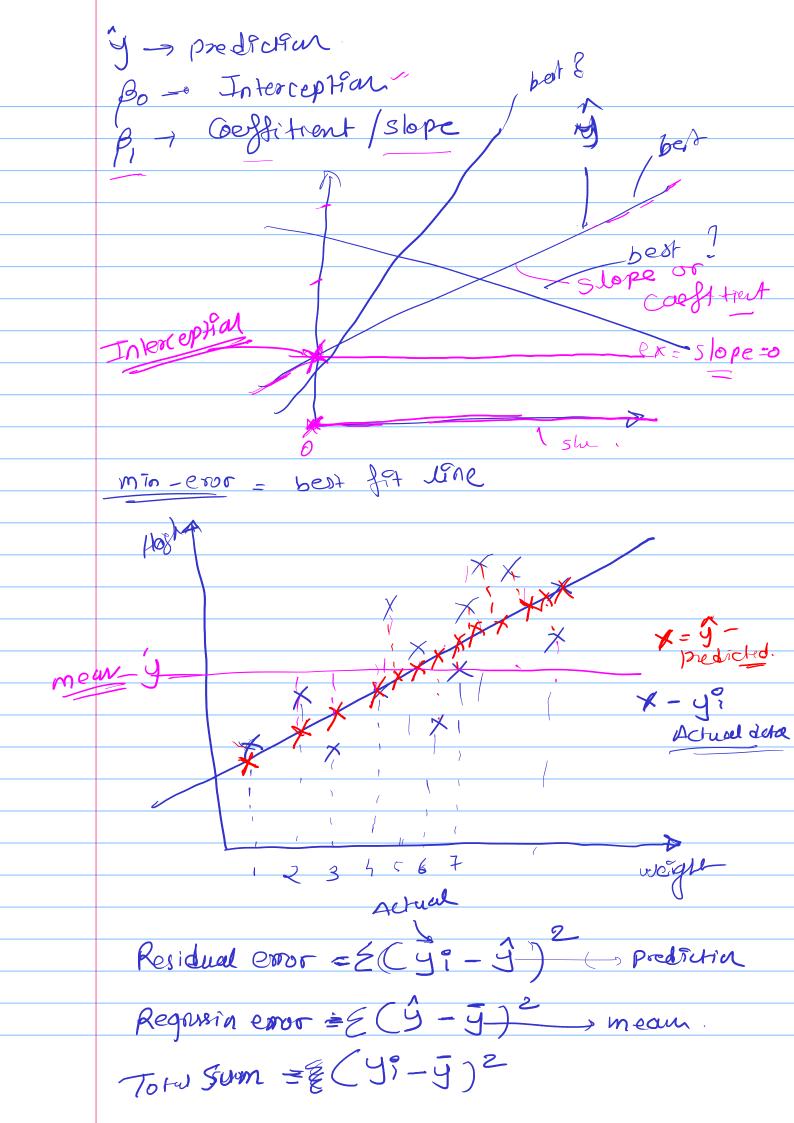
AI- ML-DL & DS - APM - to create an AI AI -> It can do its task ML conthaut human Intervention. ML - 9+ 95 a Subset of AI which use Stats tools, analyzing 2 cota, visualizing data, force esting & Prediction wing the doubt DL 7 II is a subset of ML- which is use to minic human brain 1 It can train 978elf - we use Mural Networks in OL Ds - it is a port of everything. Jocuson Domain & end gal is AI-app. Martine learning Semiswenised Supervised unsupervised W L (Lable) > Reinforcement terminer *O dassifecution O (Justinine) A Regnession no. of fateres X 018 Pain 77 xx X3 X4-Dataset dependent Independent feare lable

2 donsification 1 Regression output always in coleapsical Continions Value) James or rapide. Regression Algo Simple Lineco Regnesal Regression - 9ts all about to draw a best fit line. esquiper of part of pa 155 Lincer Algebra 60 70 80 weight = mx+C weight deight 40 - 155 new data Hogh fort go leg weigh Aim -, to draw a best for line y=mx+c g=Po+B,x ho(x)=Do+D,x



(yî-ŷ) 2-6)=(-4 (0-4)=(-4 Lineur Regnission -> performance Mothix R2 = Regners total Apporti = 1 - residual emor Hotal expor y1-4 1 R2=0-70 - 70% a coraey R2=1 - over fitting. oncy 1 indepent feature Age / Sq. feet Area / House mise Adjoint Re, for mutiple How to find best fit line? Cost fancion ; Squared Cooper Function. gray = fesidual exor for 1 point mean Absolute MAP. Root mear (RMSE) andra help us to find out

Ost Junchar minimine the crook J=Mze+C ex-duta Point C=0 n=1 1 n=3 3 J= me+ == 0 2nd 3y=(x=1)=1+1=1-3 = (x=3) = 1+3 3 = (x=3) = 1+3 g (x=1)=0=5+1=6=5 $\frac{1}{3(12)} = 0.5+2$ 3(x=3) = 005 x3 = 105 "m)= 105

n=3' + (3-1-5 (2-1) (6.5 - 0.58

Global mining draw time (forst of show)? Cost Sometin 0.58 Slope m=0.02 0.03 → leoming Rate Slope M old new mimum 0.0 = XO + Junp - maximum

