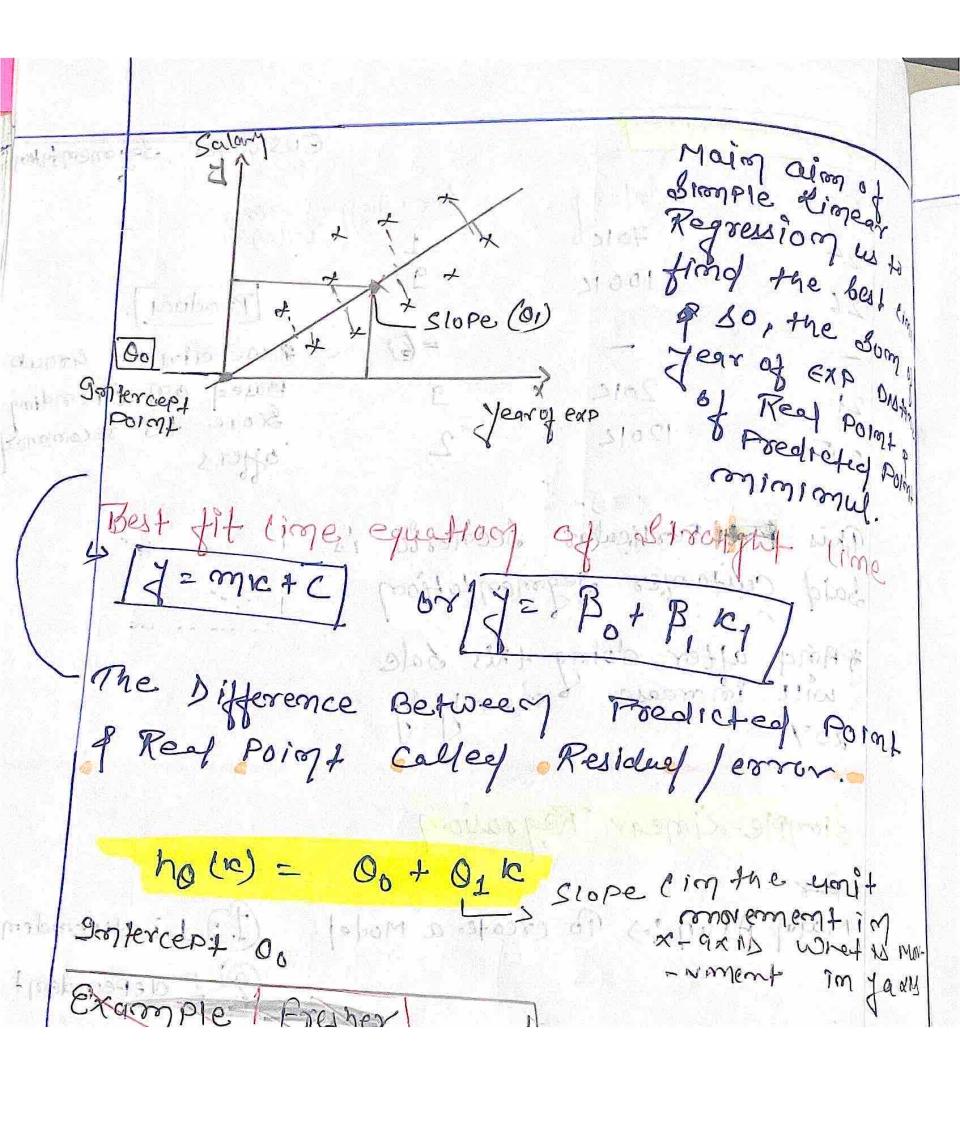
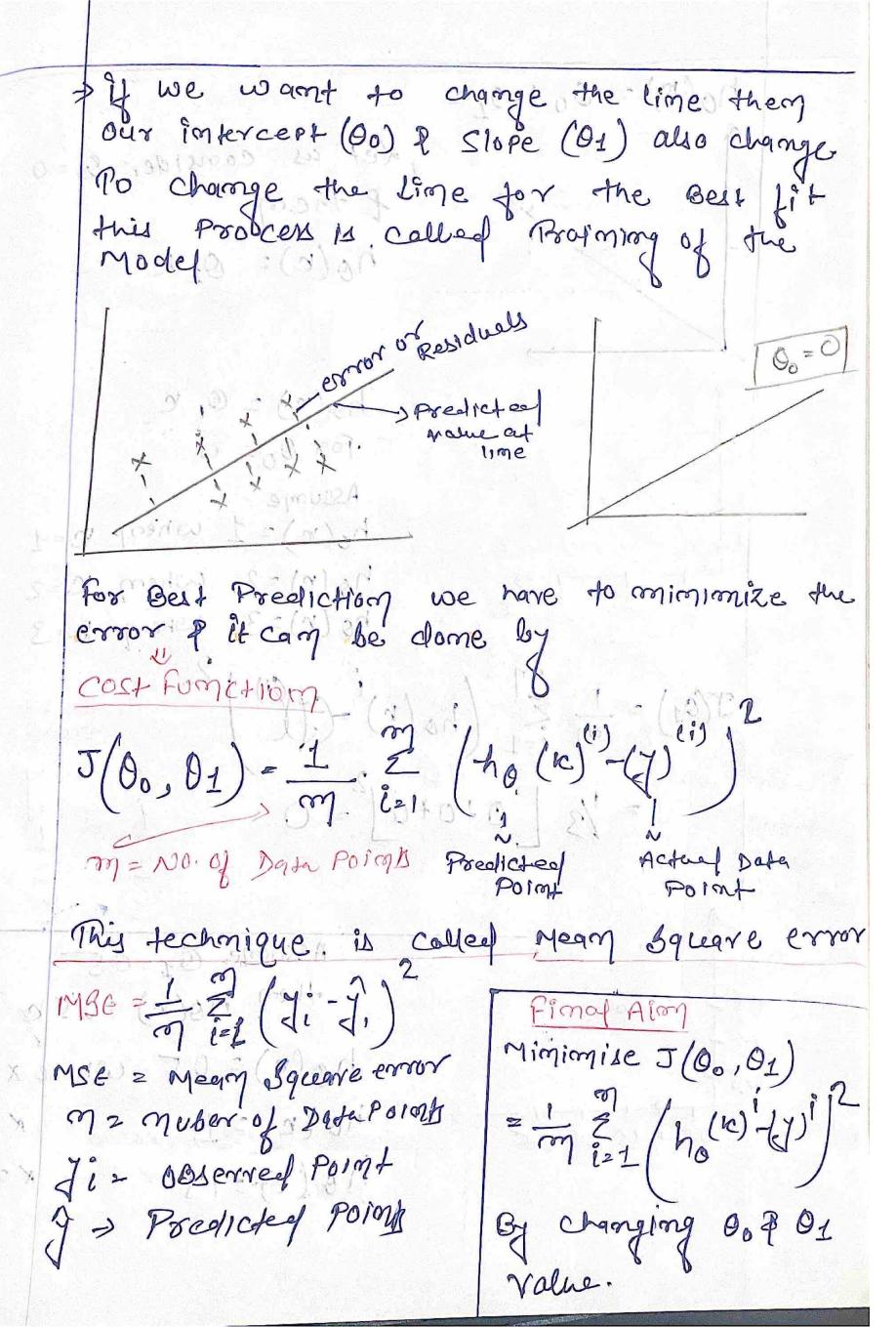
Machine Learning Machine Learning Day-1 Introduction_ lodayis ajenda 1- Machine Learning introduction 2. AI rs ML VS DL VS DS 3. Simple Linear Regression (Mathematics Intitution) Lets Start with AIVSMLVSDLVSDS Let consider/Netflix/ Application 5 Recommendation Machine System A.1 - It is creating an application -> Machine Learning Where it perform all its Subset of A-I. ML & tasks without any human Provide in Stak took intervention. to explore, visualise, analyse & Perform example - Alexa Prediction & other chaffor - AI Self-Driving Youtube Recommendedton I. What is Deep Legroning? 21950's the Scientist & Reasearchers can we make machine Learn How we we homan Being Learn.

Multi-Kerel Nueral Network invented to Mimic the human Braing De la visita de la confide NLA-Technique Computer VISION on ikher or Machine, Learning & Deep Learning Supervised May 1209 150 by 176. Umbupervised emplost fregibent Clustering Algorithum V. Noto Regression classification >>> DBSCan 1. Logistic Regusion linear Regrusion - KMegnu 2 2. 3vm Mult - Linear -> Hierarical polymomial 3. Decision tree - Bearing 43 BUR 4. Random Porest 1 Decision tree 5. Naive Bayes 6 Random Porest 6. KNN DOM 2 xy boost 8 Naive Bayes Kody Wat Kody S " Orginsteral, 9 KNN Supervised in 204 from the target variable Jeatures.

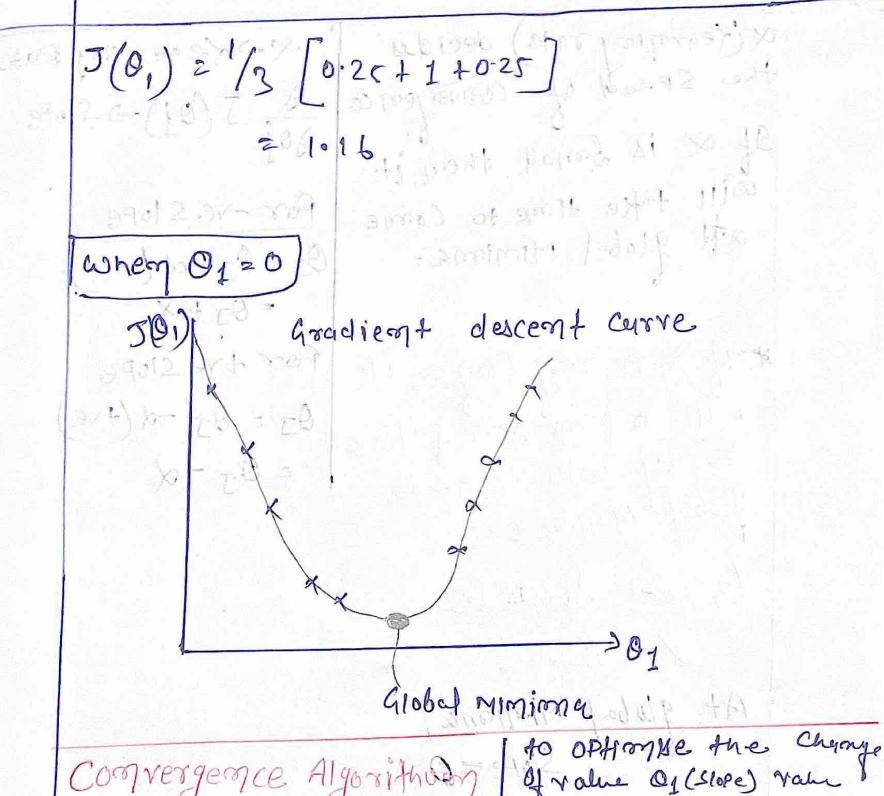
between Supervised of WILD-Jecholoda Supervises countinous feature Salary exp SOK Kegression 7012 PHD 65K 6614 68 Pass/fail Dependent teature No. of Study No. of Play Proposition Indipent feature classification 10 203 | Colors O ligear Referent Flight Price Prediction -> Regression category Algerian Porest fire -> classification indea - Regression Romanorow Rain / Not Rain > classification 2 Dependent features -> output * Indipendent features > Imput features

Customer Umsupervised Zodavon-fathal Age Balary 24 7012 5 Pending - Score 1 (1-10) 26 1001 Product \$ 40, the # we cilvide Grows 1x3 fo x60/2 21 10 2012 Based an Spending Score to recommend 25 1 12014 Medicilia This Particular Scenerio is Said Contomer Begonentation * Amof after doing this sale will imcrease mearly by Simple Linear Regrusion = (e) or (e) = Main Aim :-> To create a model (1) 1 imdipendent vi 2) 1 dependent vor 9/P= Height Proedict 50/P = weight Dafaset Condipendent) (De perndent) Lear of Exp Salarly an Jean of resperement of Model training Predict Salary on the Based of No. of Copportence



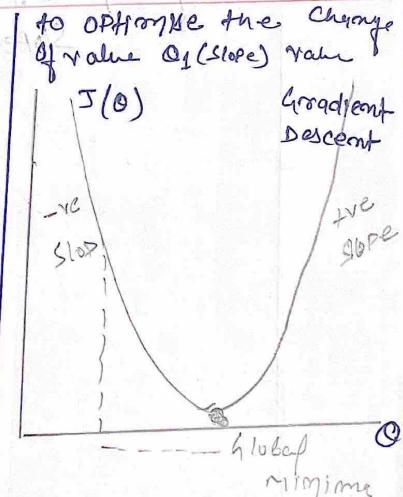


ho(10) 200 + 010 of them ho(c)= 01 k ho (rc) 2 0, 1c ·For 0020 Assume ho(1c) = I when 1c=1 ho(c)=2 when 10=2 ho (10)=3: When 10=3 in 2 (ho (k) - (fl) = 1/3 [0+0+6] = 0 Assume 01205 then no(1c) =056 ho(c) = 0.5 where x=1 ho(c)=1 0.5.1 15 2.0.2.5 ho(e) 21'5



Convergence Algorithan Reapeat until Convergence

or main Aim to Come over alober minima because there difference M very less



X-> Learning Ray ox (Learning rate) decides 301 J (0j) -5 Slope the Speed of Convergence If a is small them it for -ve slope will take some to come 05 = 05 = x (-ve) att global Minima. = 05 + 0 diedt dercht Carre for the slope # HX M resy large 0] = 0] -d (+ve) will be jump here of there 2 05 TX hardly will come to glober o Minima So, value Should be At global Minima, Slope = 0 (io) [= 9 × - 10 = 10