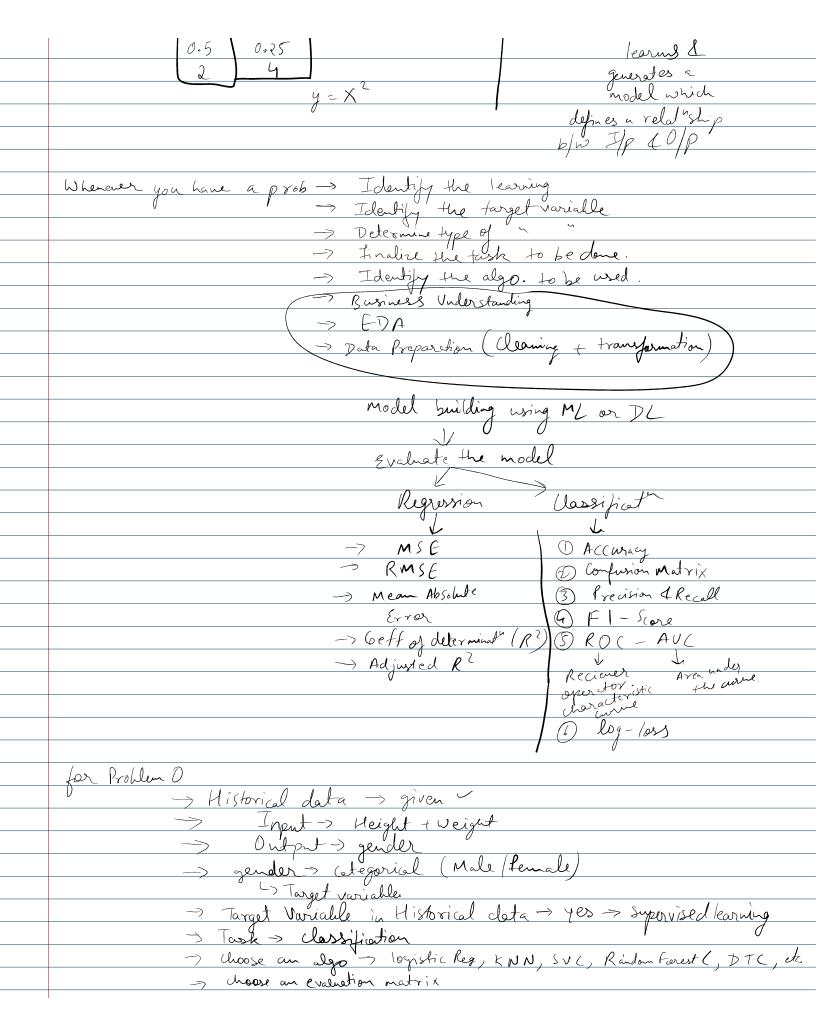
MC 7 Van Jearny models Target Variable
ML 7 Pata learning models Target Variable Training given not given Ingredients Training given not given Supervised Unsupervised A in the target variable
Ingredien) () () () () () () () () () (
anistions to be asked before selecting a Mic my
and is the target variable
$Qz \rightarrow$
02-7 What is the type of target variable
Supervised Learning -> (Target Variable -> given in historical) data
Unsupervised learning > (Target Variable > not given in historical data)
Supervised y D of menical discords
Continuous Continuous
Classificat Regression ho sabla hai
y - Categorial y - Real values
-> numerical discrete
(an be
Supervised (Jota sel mai numerical discrete (Jota sel mai numerical discrete) (Continuous (C
Problem 0: Given height 4 weight og an Individual, predict the gender.
m o l
(h, w)
temale
Non > Taken the data
eg Xy
5 25 $3 \rightarrow 9$ Contains I/p $40/p$
2 4 Jearns & generates a
general as



	> Accuracy, FI-Score, Precision 1 Recalletc.
	Problem 1: Given height, predict weight
	Input > height > Target Variable. (Continuous Numerical Feature)
	Supervised learning > Target is in historical data.
	Algo -> linear Reg., KNN Reg., SVR, DTR, GBDT Reg. ck.
)
	Evaluate > MSE, RMSE, R ² , Adjusted R.
	Problem 2 -> IRIS destaset
	Input > SL, SW, PL, PW
	Output > Species - Target variable (Discrete)
	Target > (ategorical
	present in historical data
	Tarla 10 illinois
	Task - Classification
	Algo -> logistic Reg, etc Evaluation -> Precision, Accuracy, etc.
-	The state of the s
	Problem 3 -> Given an email -> spann or not
	Problem 3 -> Criven an email -> spann or not Input > Body, Title
	0/p > spam / ham > larget Variable (Discrete)
	Target -> (ategorical -> present in historical data
	learning -> Supervised
	Task -> Classification
	Algo -> KNN, SVC, DTC
	Evaluation > FI-Score, Recall, precision etc.
	Problem 4 -> Given a Text review, predict the Rating
	Tont > Yeview
	Topt > Veriews Ofp > Rating (1,2,3,4,5) > Target Variable
	Target Variable -> Discrete, numerical -> present in historical data
	Task -> classification
	learning -> Supervised.
	Algo -> KNN, SVC, DTC Evaluation -> F1-Score, Recall, precision etc.
	Evaluation > F1-Score, Recall, precision etc.

Brohlem 5: brive an Image of handwritten digit, Identify the digit.
Input -> Image of digit
Output > 0-5 -> Target Variable
 Input > Image of digit Output > 0-5 -> Target Variable Target > Discrete, numerical -> present in historical data. Task -> classification
 >> present in historical data.
 Task - classification
 learning > Supervised
 Algo > KNN, SVC, DTC
 learning > Supervised Algo > KNN, SVC, DTC Evaluation > Precision Recall, Accuracy etc.