	Date
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- Introduction	to Machine learning
Machine learning In AI VS ML VS DL Simple linear Regr	
A·I App -> Met	aming Platform Flix Recommendation > A.I Models
INL D.S	Stats Thelligence Astificial, Ented light (A.I) Programming It is an Application where it performs all its task without any human intervel
prediction and oth	to analyze vistualize / perform es task with the help of data taset olp

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	Description of the second	77.		
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Supervised			Unsuperu	
		See	1	17.50
1			Chicker	ing Algory
	J	7	V.	J. J. J
Repression	Classificatio	n	1	Kmeans
1 linear Regression 110	· logistic	Renzessia	00	1271 HIBERT
(2) Polynomial 1	(D) SUM	Julius	100	10 011
3 SVR	(3) Decis	ion Tre	0 26	204
M Decigion Tree		dom for		
(5) KNN	(E) KN			
(E) Xabrust	3			
(7) Random Forest		35		
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Supervised		fiera		
	Predict			7-
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		Teach	er's Signature.	

examples: Independent variable prediction study Result O/P No of Plays Pass/fail. hours hours their mot the > Dependent feature

Dataset Examples :

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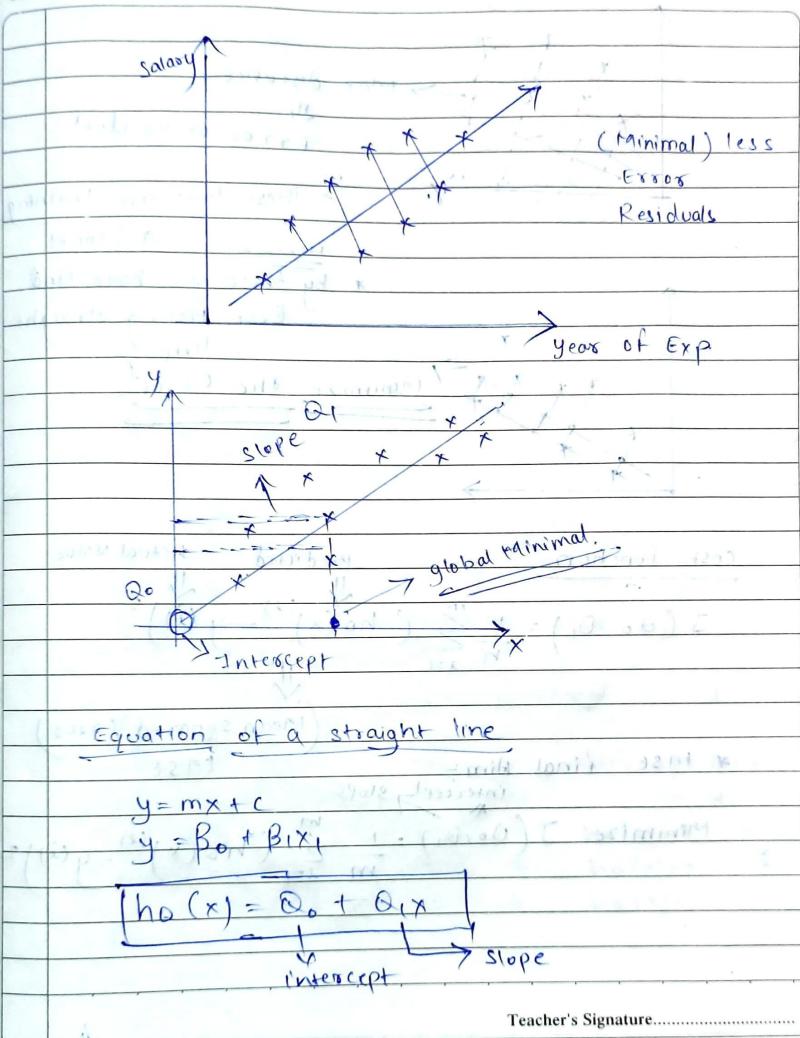
Flight Price Prediction -> Regression

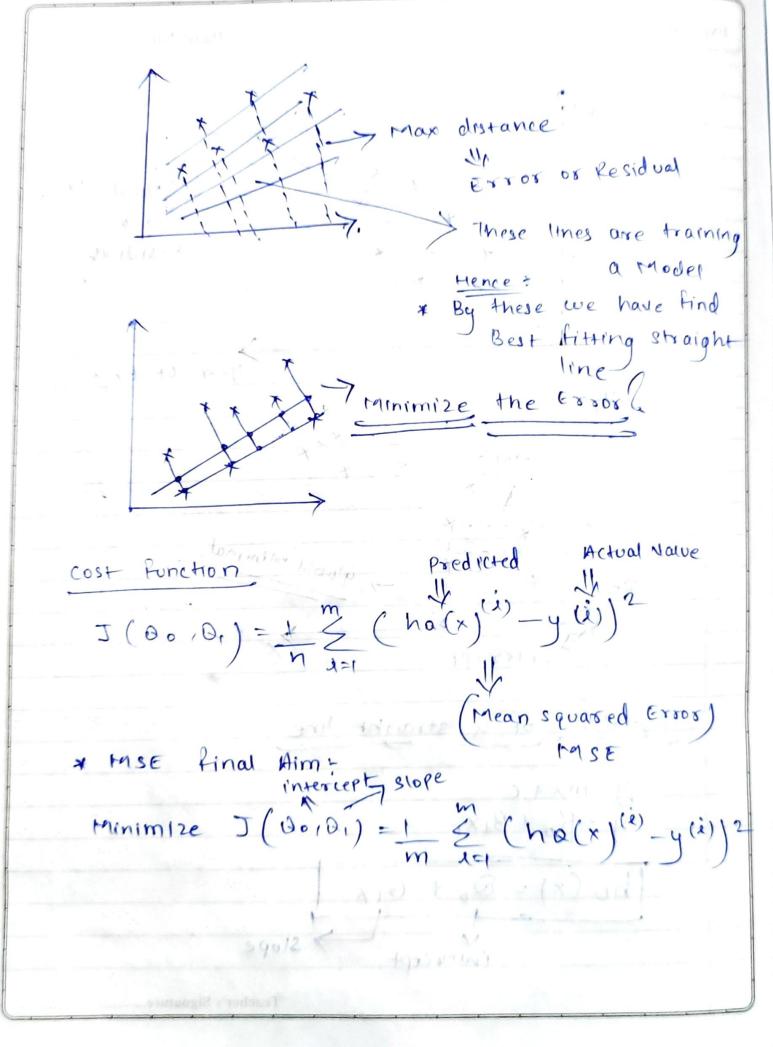
Algerian thre forest Classification

-> Regression. Air Quality Index

	Unsupera	ised ML ->	>
	Age	salary	spending-score (1-10)
	24	70 K	
	26	10012	q
	_		7 0003
			X / X - C - C - C - C - C - C - C - C - C -
	21	20K	9
	25	120K	2
*			can Assume that person has higher spending Score,
	coore,	son with	some person with lower salar
Dfn	M.L US	ised learning	learning algorithms to analyze
	and du	ster unlabeled	datasets Teacher's Signature

Simple Linear Regression: 1 Dependent variable 1 Independent variable (x); Independent Dataset + Ofp prediction. > Dependent year of Exp Salary





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formula MSE = 1 & (yi - yi)2

n= number of data points

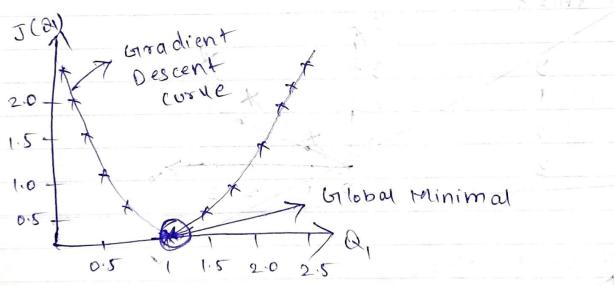
Yi = observed values

Yi = predicted values.

Examples: ha(x) = Qo + Qix

let us consider

00 = 0 × D = (x) 8 x



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J(01)=1 T(0-1)2	+ (0-2)2+ (0-3)2)
J(01) 2 4.66	(24-) 20-13 - 18
aminist todallo ()	20 + (8) =
Convergence Algorithm	Soptimize the changes of Quatre?
Repeat until convergence	
5	eas many Rate
01:=01-1013	J(Dj) Slope Operivative
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