

To differenciate between categorical data columns and numeric data columns. Following statement is an example of a code of List Comprehension in Python. eat_col = [col for so col in train_dfo columns of Train_ of [col]. type= cat sol print (cat col) [Out] -> All solumn names with sategories data in Datafrens

(This means) col for col in train of solumns if train of tool I dife = 0 I teration fort Condition fast dype o' means object type If condition = = tour then only column will be column will be considered in list Contput) > Dealing with categorical data Cotegorical data Nominal Data Those data that have some hop (The data that have no Hisrarchy border) of Hierarchy. are Hot Encoding To be done Label Encoding To be Dark

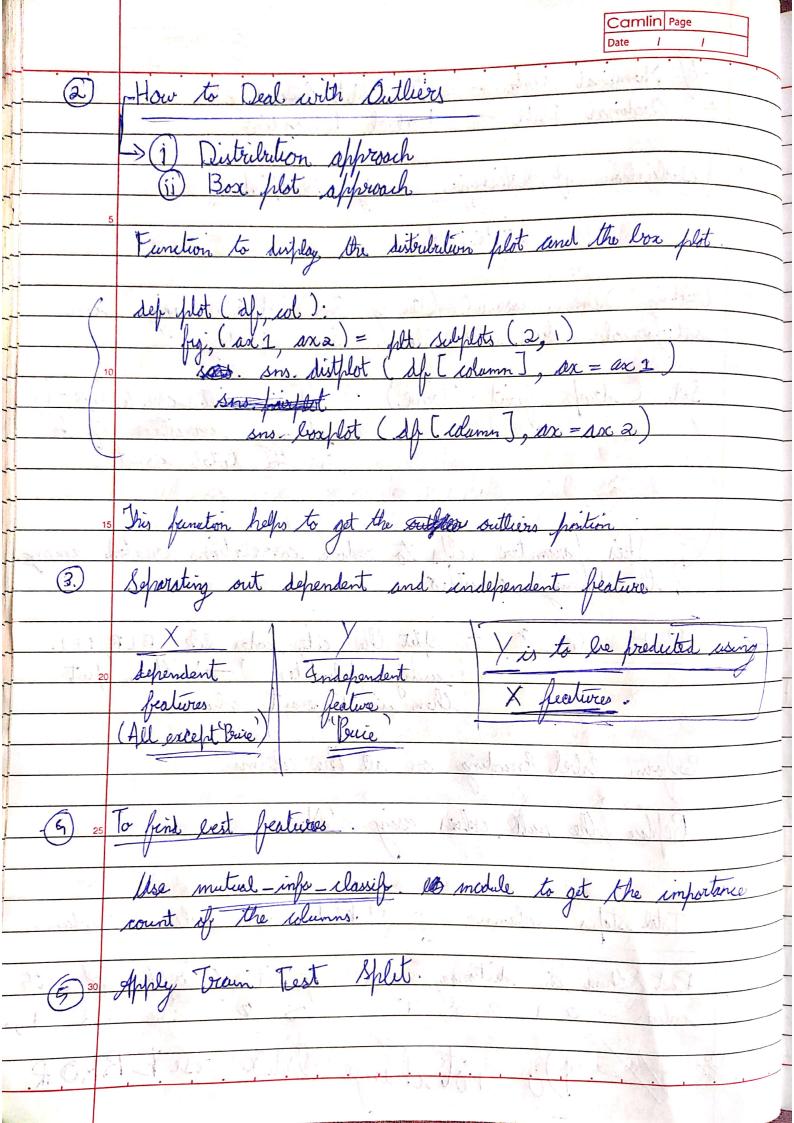
Nominal Pata -> One Hot Encoding.

Ordinal Data -> Label Encoding Viscolization of Airlines using voschlot.

(Total-stop) Treating Dummy variables (Doing One Hot Encoding) on sategorical columns -> dirlaines, Source, Desting Set (drop first = Truel) = This will vieate (k-i)

during viviables, if k

is the total sount. This parameter helps to reduce correlations created among the dummy variables. Route column? - Split the city codes lik BLR DE!
using delimiter ">" then put
them in different columns. Resporm label Encoding on all the edumns. Keplace the null exlues using 'None Total stops' column !) Find unique values in column Put them in dictionary and map it to refiber of with values 20, 1, 2, 3, 4 Do not shange Order else ERROR



	Camlin Page Date / /
6.	Use Random Forest Regressor -> 81% &
	Bertalgo
(£).	V
5	
8	Mse KNNs -> 68%
9.	Mse Decision Tree > 69-6
	included and the state of the s
10	Par D D D D D D D D D D D D D D D D D D D
	Cerforn Reports Hyperparameter Tuning
	Declaring n-estimators and max depths
15	n-estimators = [int(x) for x in np. limpace (start=100, step=120 grum=6, max depth=[int(x) for x in np. limpace (start=5, stop=30, nem=4)]
1	Costing dictionary for feed the parameters to the Randomized Search (V.
20	nandom-paramo Entre mana louting motor of the
	n estimators: n esternators
	man features? ("suta? syst)
	man features? ["auta? spet] man-depth: man-depth min-suple-split: [5, 10, 15, 1000]
25	3.
(n).	11 he Helpertune March Render Front Rosessan de -> 82, 7
	Use Hypertuned Petrof Rundom Forest Regressor Alga > 8 4 %.
(12).	Save model locally using puble.
30	The state of the s
13.	Load Testing Data > Bo Load Babiand Model > Boprocess Test
:9()()	Data -> Resporm Brodulisms -> Save the new xl sxfide locally