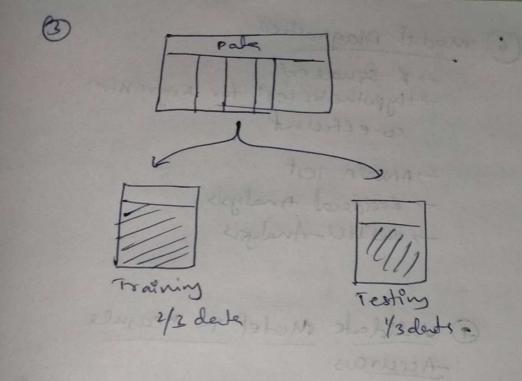
Dependent o Independent Variable Variable Association delationslif unear Regression [supervised] (predictive-Analytic ecteps in building cr-model ? Develal ?teration 3 patasource source source Q/8102-0 Dependent Independent valiable variables > peperdent rechnéque le) Pate Impulation completener Independent grewagian. Acculary missing dates 3 transferrate and of controlly outliers



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To find ordliers

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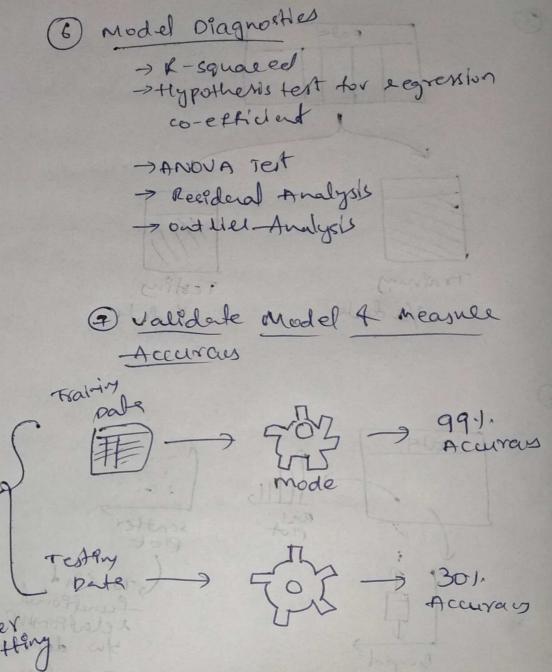
To find legrenion

palametels

(Y = Bo + Bix + E)

const tyrede
in 10th

you will get Bol B1



- model performance must be would training a testing detacet

- cross validate the model using multiple training and test datasets

(8) peploy the model

-According to the Business rules

Y = pependent variable

(Po, Bi) = Regression parameters

E = Random Error

X = Independent variable

For nobservations,

$$\frac{(\gamma_i = \beta_0 + \beta_1 \times i + \epsilon_i)}{\text{where } i = 1, 2, 3, ---n}$$

$$\frac{(\epsilon_i = \gamma_i - \beta_0 + \beta_1 \times i)}{(\epsilon_i = \gamma_i - \beta_0 + \beta_1 \times i)}$$

Bolb, can be extimated by minimising sum of squared errors (sst)

values of Roll Ri are taken by paetial deservatives of SSE

Above method is called as OLS method. It yields BLUE (Best Unear Unblased Estimates) ->(E) es constant tor varpus independent

-> E: & x are correlated

-> functioned relationship b/w outone variable 2 feature is consectly defined.

Properties

1) Mean (Yi) = Bo+Bix

2) YI follows Normal Pistribution with mean BotBix & vallace VAREI

Bo & Bi con be ectimated by minimizing sure of equaled Earles (see)

(x19-19-14) = 13 = 32

housed a series tises ause whom

Y = (BD) + (B) X + E

constant () OLS API estimates

(12) (B1) only to estimate

po a constant term

po a constant term

meed to be added

as new feature.

Yi = B= +Bix +E OLS gives (Bo & B) Yi = 30587,285652 + (3560.587 * 62.17)

for every 11. increase in Grade 10 salary increased by 3560.587

20/month