E (X) Feature Engineering W Feature Belection " selecting attributes which fit best " with independent vax & target vax There are certain features " are more imp that others. -> Chi-squared test -> Correlation coeff scores -> LASSO -> Ridge Regression 2) Feature Transformation Transforming original feature to func To reduce right skewness of dale we use log

\* B Feature Extraction on when date is large => redunda. For tabular dala use PCA "For Image use line, edge de kubi AMPLE LINEAR KEGRESSION:-Relationship bow dependent & independent var can be expressed i st line Linear Regression Simple linear Multiple linear Simple linear = When X & Y have linear relationship y=mx+c To the this, XY Scatterplot - linea

En sesidual plot shows random Dattern Multiple Linear Regression Y = Bo + B, x, + B2 x, ... 1 - Independent var (cont) > 1 Independent vax (x, x2 " For Reglession 10 (1) Convert Categorical var to Cont 17 1-1 = Label Encoder 10 Litor Dichotomous Vay Notes G For Nominal Var Red = 0 Grey = 2 Blue = 4 For Ordinal Var

THE PARTY OF THE P
y = that sinking feeling
· Ranking with labels
10 O'dinal x   Encoded x
10 O'dinal X   Encoded X  Bad   D  Shit   1  Ah, tak   2
Ah, tak 1 2
Thehen facing nominal var that
"should not have diff weightage
"Red = 0 Grey has more weightage "Blue = 1 Hom Red, blue Crrey = 2 & so on.
Crrey = 2 & so on.
But All are same.
"So ONE HOT ENCODING used " (Creating Dummy Var)
Notes If var los & colours then you
should only be using 2 dummy
var.

13 Notes improve the most when it is le Report

X, + X3 + X4 3 Bidirectional Elimination forward + backward Like added x, x2 x5 X8 COLLINEARITY, CORRELATION G helps to get rid of var that 18 are skewing data - describes relation If extendly correlated then Collinear scannea with camscan