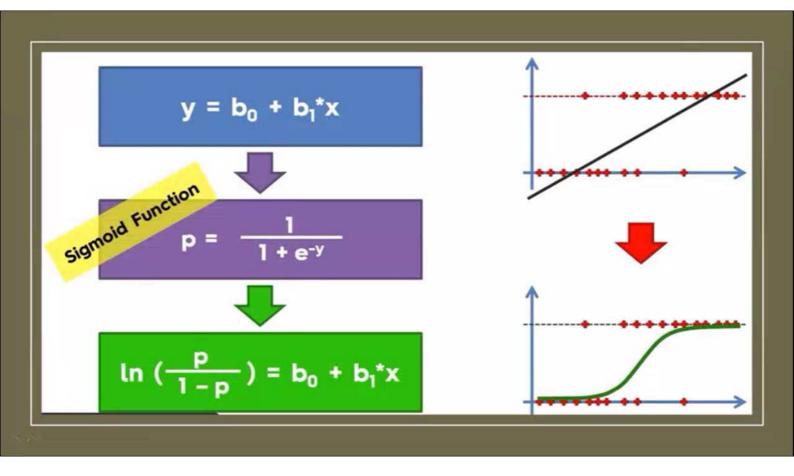
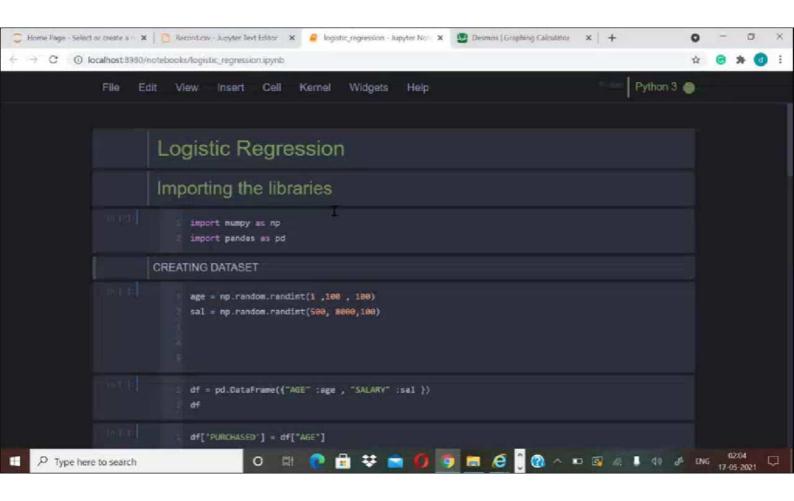
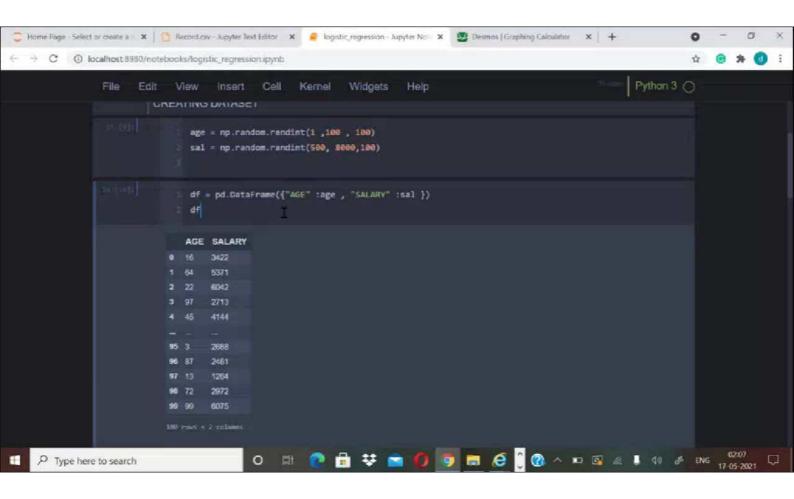
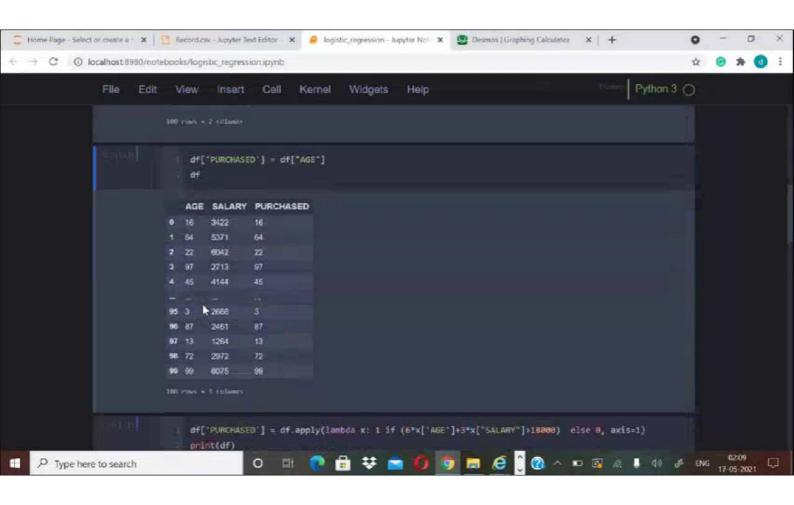
LOGISTIC REGRESSION

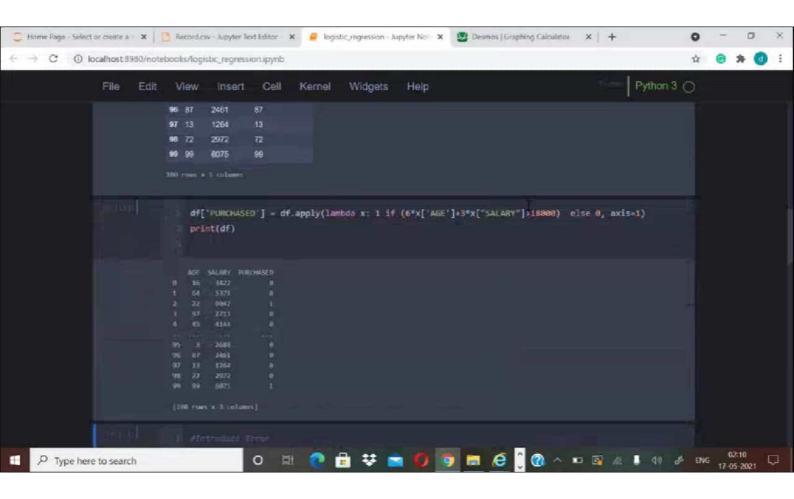


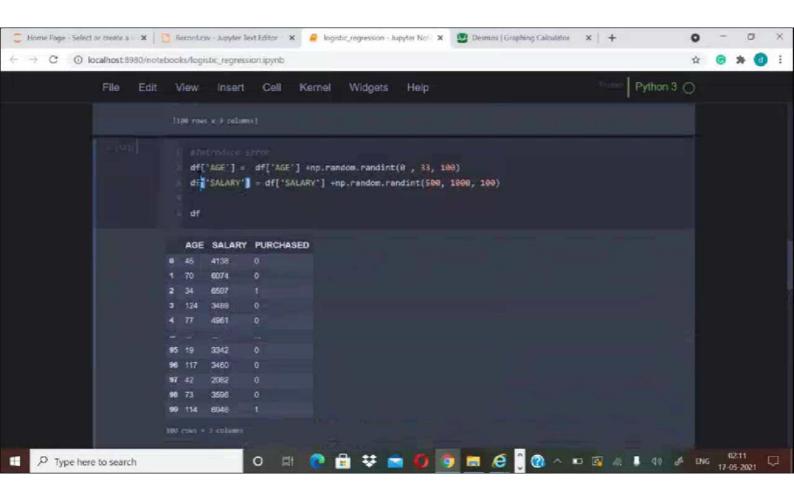


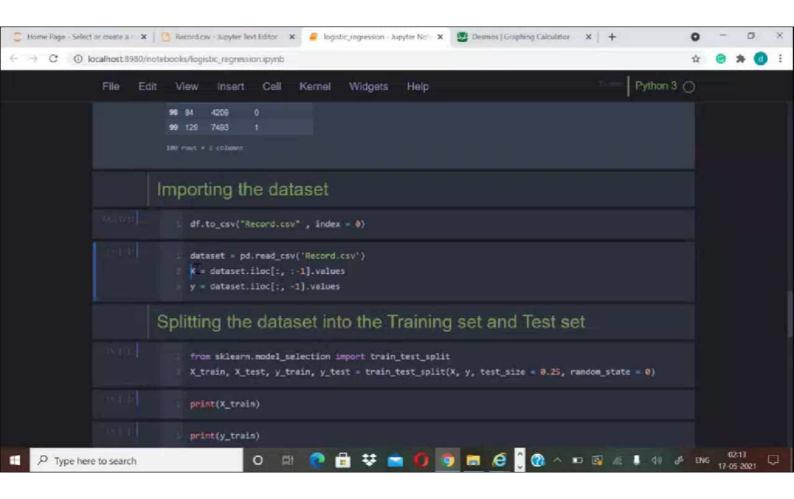


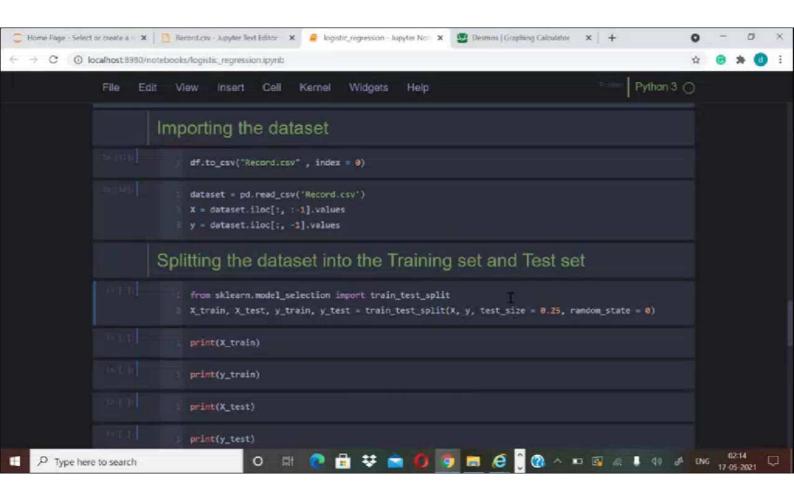


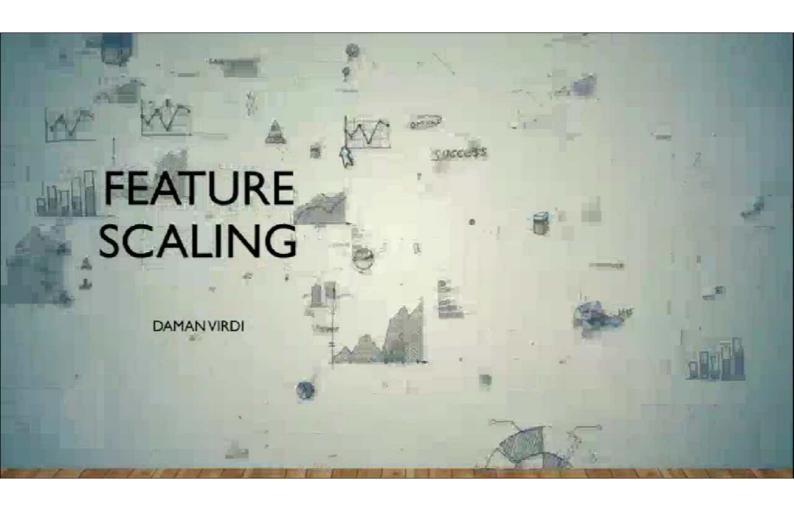












WHY FEATURE SCALING?

- · To put all the features on same scale
- · For some ML models, to avoid some features dominating other features.
- · We need not apply it to all the models
 - Because like in multiple linear regression: y = bo + b1*x1 +b2*x2 +b3*x3
 - . b1, b2, b3 are there to avoid dominance of any feature
 - Coeff would take high values for the small-valued features

Standardisation	Normalization
$X_{stand} = x - \frac{mean(x)}{standard\ deviation(x)}$	$X_{norm} = \frac{x - \min(x)}{\max(x) - \min(x)}$
Value ranges from -3 to 3	Value ranges from 0 to 1
Can be applied to all type of data	Can only be applied to most of features having normal distribution

7-1-



