**The Boston Housing Dataset:**

**Attribute Information:**

The Boston Housing Dataset is derived from information collected by the U.S. Census Service concerning housing in the area of Boston MA. The following describes the dataset columns:

CRIM - per capita crime rate by town

ZN - proportion of residential land zoned for lots over 25,000 sq.ft.

INDUS - proportion of non-retail business acres per town.

CHAS - Charles River dummy variable (1 if tract bounds river; 0 otherwise) NOX - nitric oxides concentration (parts per 10 million)

RM - average number of rooms per dwelling

AGE - proportion of owner-occupied units built prior to 1940

DIS - weighted distances to five Boston employment centres

RAD - index of accessibility to radial highways

TAX - full-value property-tax rate per $10,000

PTRATIO - pupil-teacher ratio by town

B - 1000(Bk - 0.63)^2 where Bk is the proportion of blacks by town

LSTAT - % lower status of the population

MEDV - Median value of owner-occupied homes in $1000's

**Steps To Perform the Model:**

* Load the dataset
* Preprocessing.

a) Print the first 5 rows of the dataset

b) Check the features in the dataset

c)Check the missing values

d)Check the numerical features in the dataset

e) Check the distribution of categorical columns

* Separate features and Labels
* Split the dataset to train and test
* Do normalisation if required
* Now build as neural networks (ANN)
* Compile the model
* Make predictions
* Find Accuracy score
* Build the ANN models with increasing 2 dense layers to each model and compare the accuracy scores(Minimum 5 models Required)
* Visualize train and validation Accuracy and Losses for every model.

**Note:** For any doubt’s clarifications, Join the mentor session from 2:00 pm to 6:00 pm or reach us on Discord 10:00 AM to 5:00 PM.

**Thanks and Regards,**

Innomatics.