The given data is an Autouniv data, where the number of instances are 1100 and the number of categorical columns are 5 and numerical columns are 8 and number of classes are 5. AutoUniv produces a model through a process of constrained randomised search to satisfy the user's requirements.

* First I extracted the csv file to the pandas, then I found the info () and description of the data, where it shows the type of data as well as the count, mean, min, max value of the particular data in a row/column.
* Then I found out the value\_counts of categorical column.
* I also tried to found out the group-by function to find out the aggregate mean and count etc. Here I saw the number of counts of class5 is higher, and the lowest count is class1.
* To find out the normalized value I splitted the numerical and nominal data, where I found out the normalization value of numerical data.
* Then I converted the nominal data into Label Encoder, where the data is defined as 0,1,2 only.
* Then I did the logistic regression by splitting train data and test data and found the accuracy of the models and the confusion matrix. The accuracy score is 35.4545.
* Then for 5\*5 matrix its difficult to find the % of false positive and false negative.
* Then I found the neural network for 2 layers where the accuracy score is 35.45.
* For multi neural network like for 3 layer the accuracy score is 32.72 and for 7 layer the accuracy rate is 0.3
* The level is increasing the accuracy score is decreasing
* Then I found out the histogram, scatter plot, boxplot.