# Assignment-4 Statistical Machine Learning Approaches To Liver Disease Prediction

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Maximum Marks	2 Marks

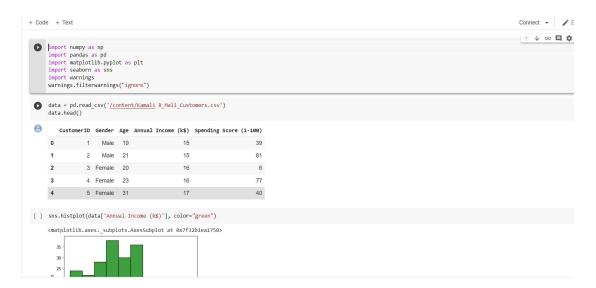
### **Customer Segmentation Analysis:**

Importing the necessary libraries

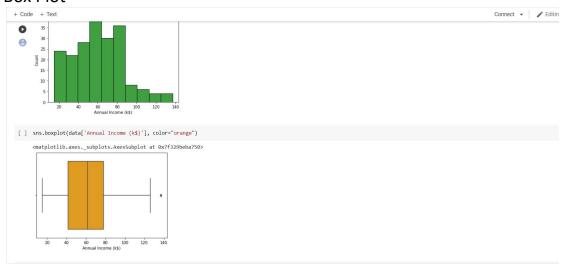
Downloading and Loading the Dataset

Uni-variate Analysis

Hist plot

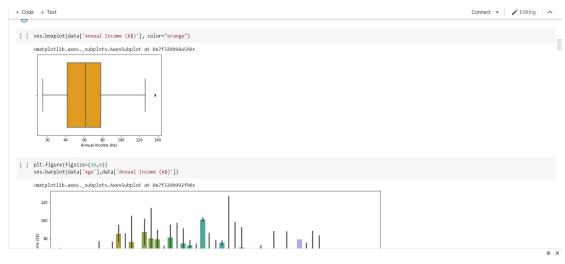


#### **Box Plot**

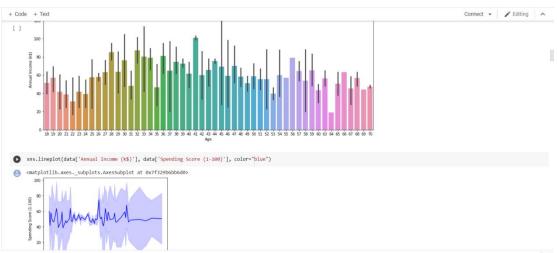


## **Bi-variate Analysis**

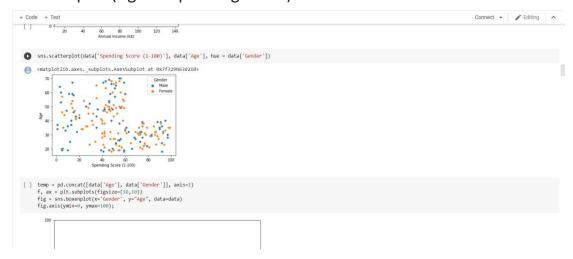
#### Bar plot



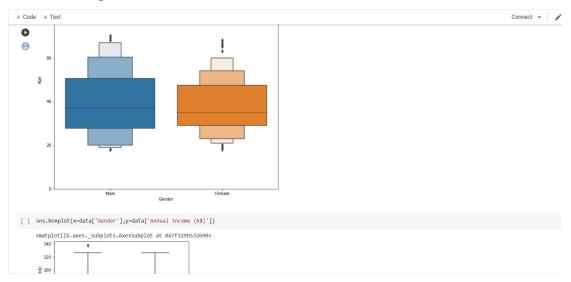
#### Line-plot



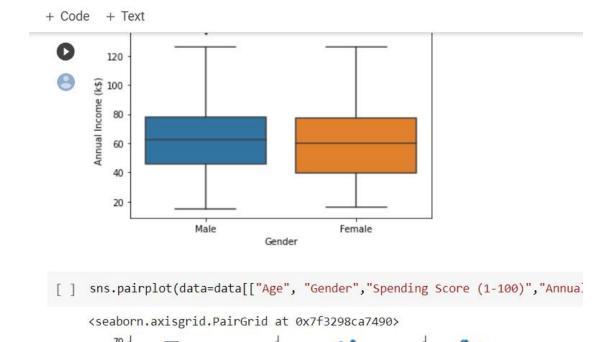
#### Scatter plot (Age vs Spending Score)



#### Gender vs Age Distribution



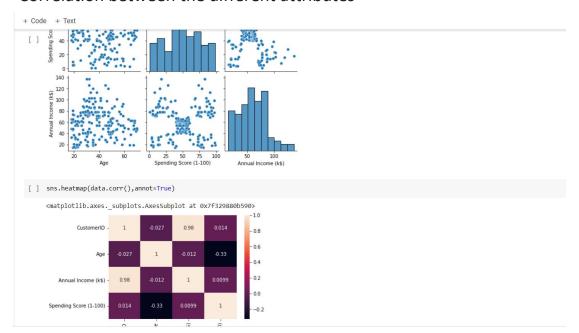
#### Annual Income vs Gender Count plot



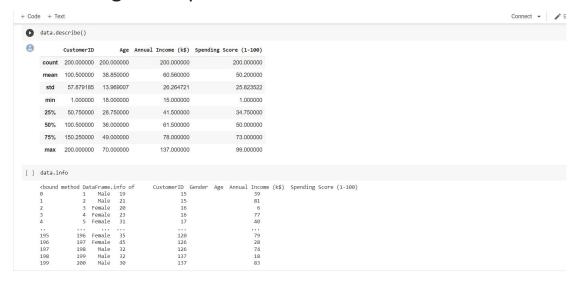
#### Multi-variate Analysis

60

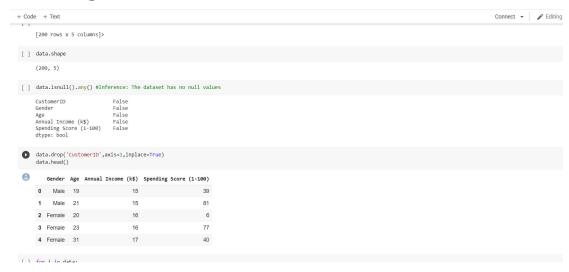
#### Correlation between the different attributes



## Performing Descriptive Stats on the Dataset



## Checking for null values



Finding the outliers and replacing them
After removing outliers, box plot will be like

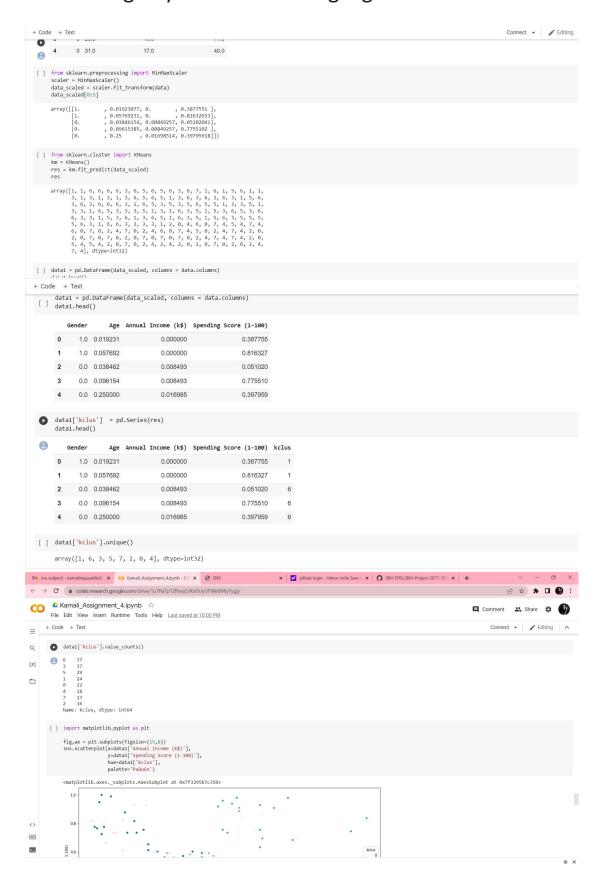


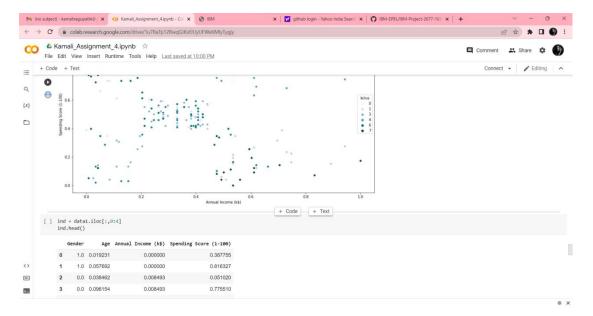
## Checking for categorical columns and performing encoding



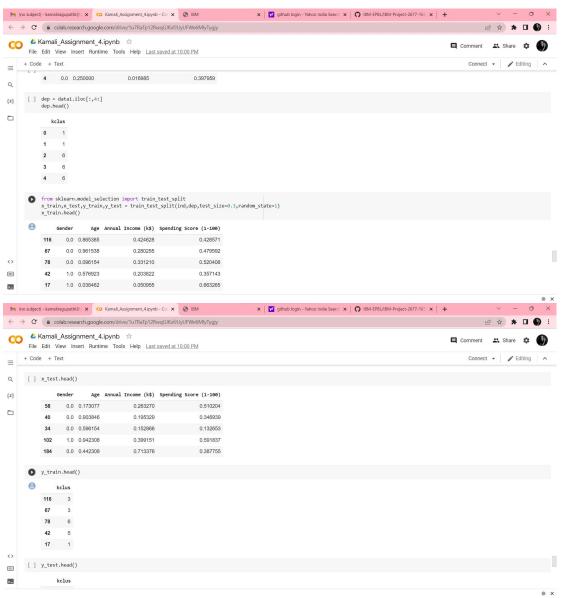
#### Scaling the data

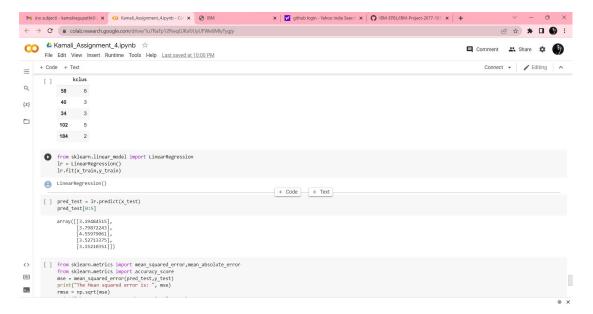
## Performing any of the clustering algorithms





### Splitting datasets into train and test data





## Measuring the performance using metrics

