**Data Partitioning and Modeling**

The data was partitioned into train and test datasets.

The first partition data set was used to create the decision tree model.

The trained model was then applied to the second partition dataset.

This is important because we need to test our model in data set different from the training data set to see how is it behaving in different data with the same distribution.

When partitioning the data using sampling, it is important to set the random seed because we want to be able to reproduce the same results in each execution.

A screen-shot of the resulting decision tree can be seen below:

