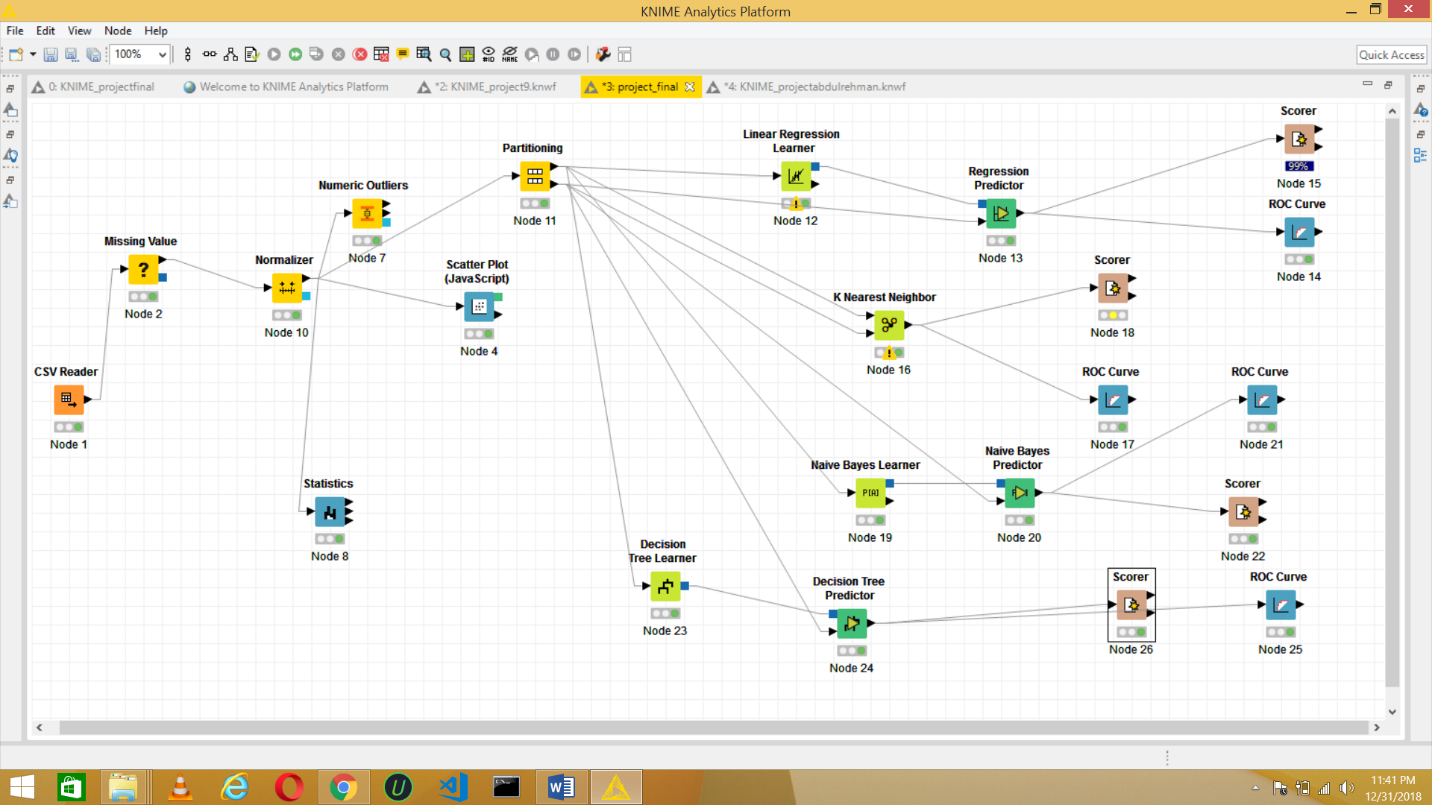
*Project report*

**machine learning**

submitted by :habibullah (10591)

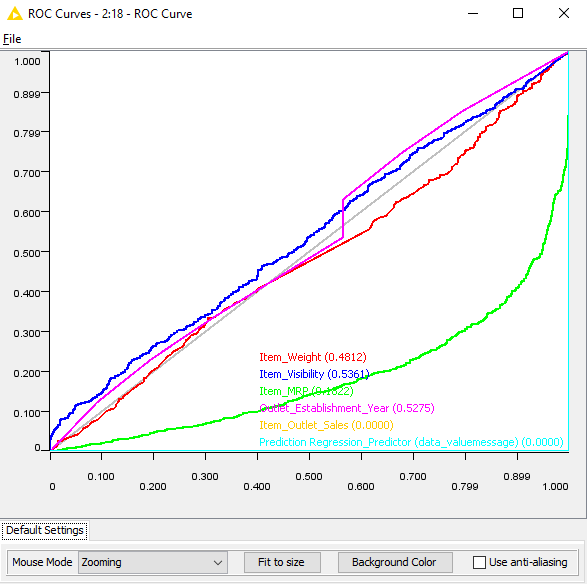
submitted to :sir sharraf Hussain

**Model :**

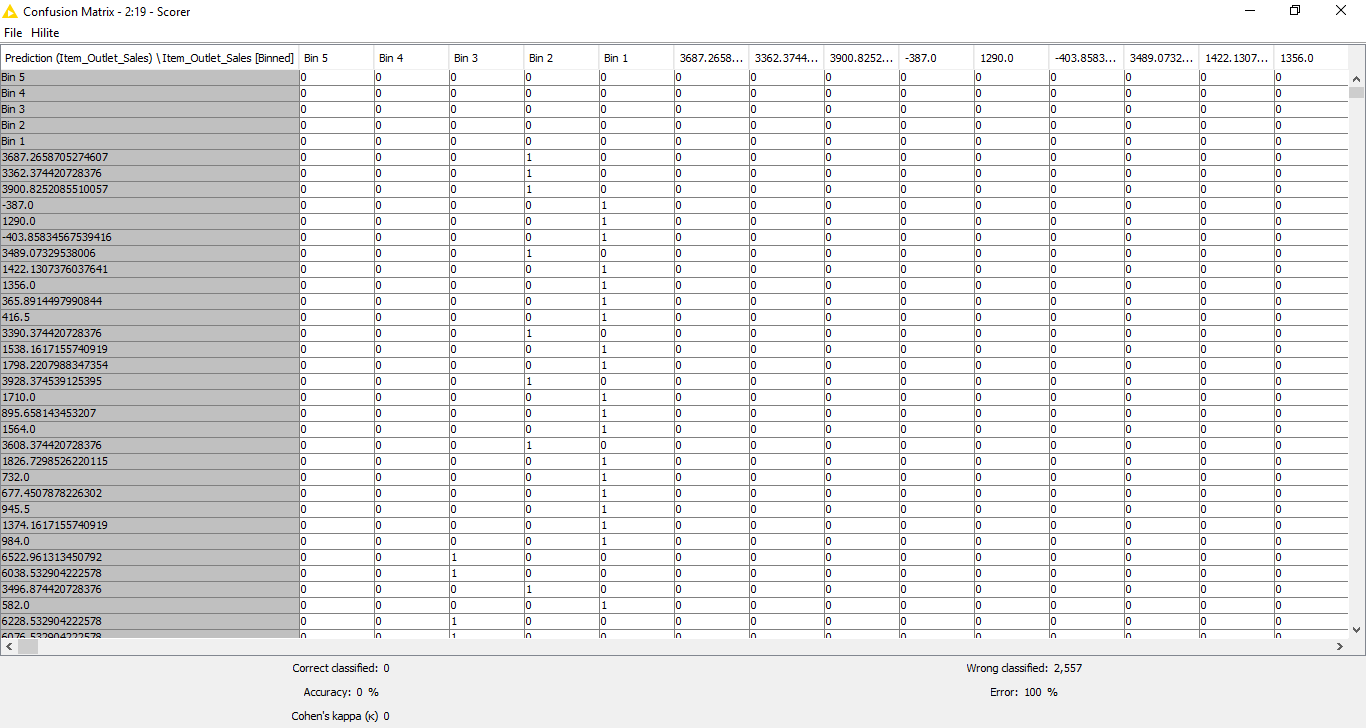
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**Error Based Learning**

* **ROC of Linear Regression**

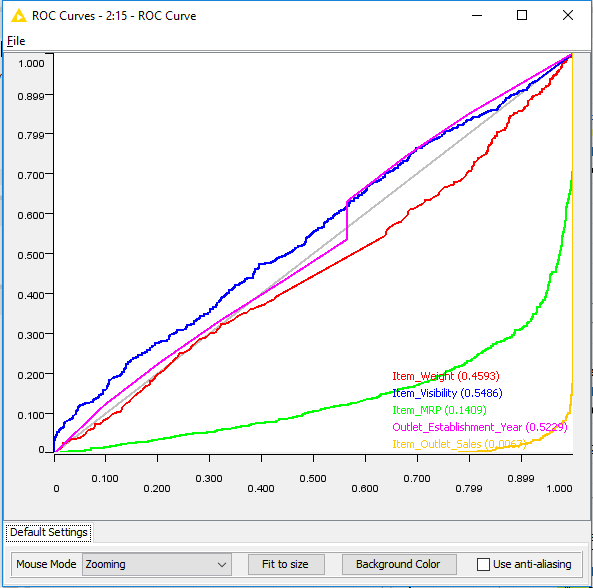


* **Confusion Matrix of Linear Regression**

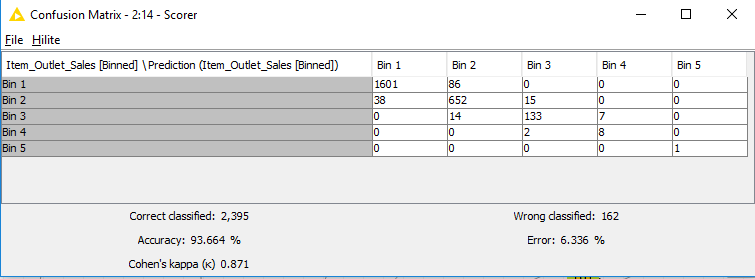


**Probability Based Algorithms**

* **ROC of Naive Bayes**

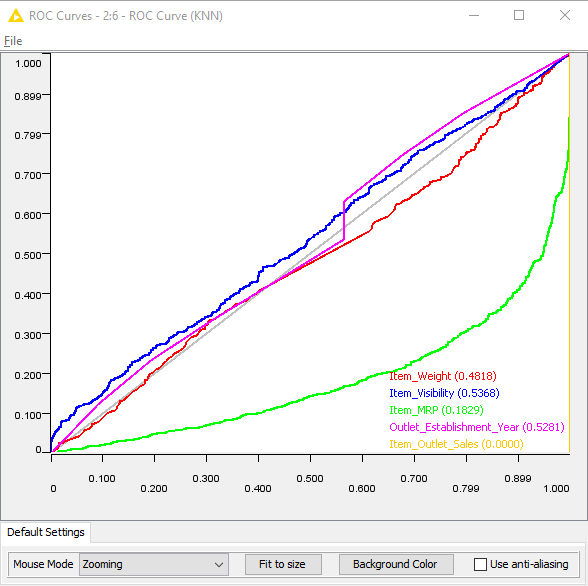


* **Confusion Matrix of Naive Bayes**

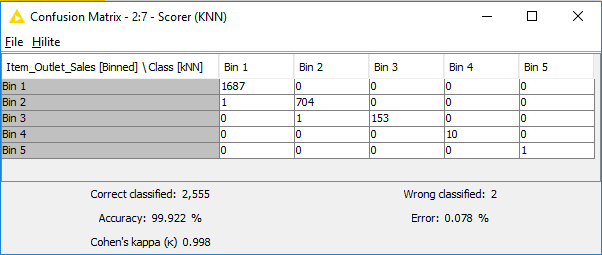


**Similarity Based Algorithms**

* **ROC curve of K-Nearest Neighbor**

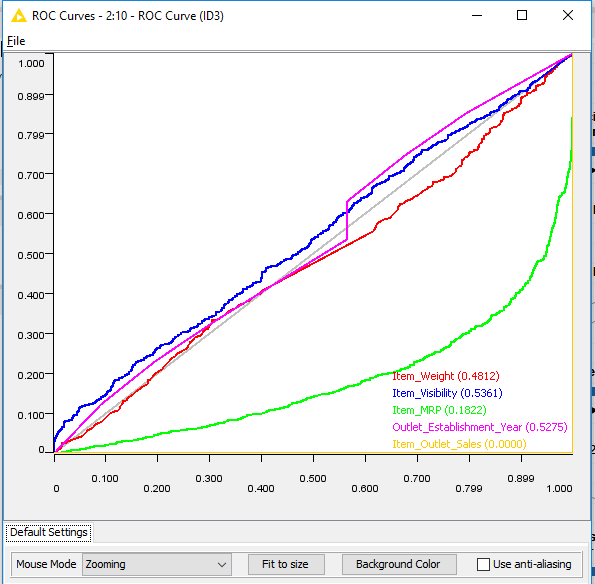


* **Confusion Matrix of K-Nearest Neighbor**

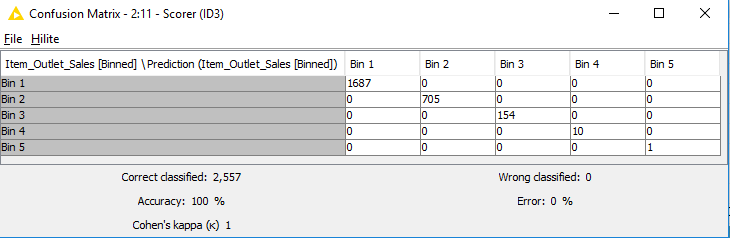


**Information Base Learning**

* **ROC Curve of Decision Tree**



* **Confusion Matrix of Decision Tree**



# **Results**

Out of all four algorithms applied, Decision Tree of Information Gain and KNN of Similarity Based Learning gave the best prediction and 0.00 ROC Curve with Accuracy of above 90%. Hence, these two performed the best with the dataset of the above-mentioned business problem.