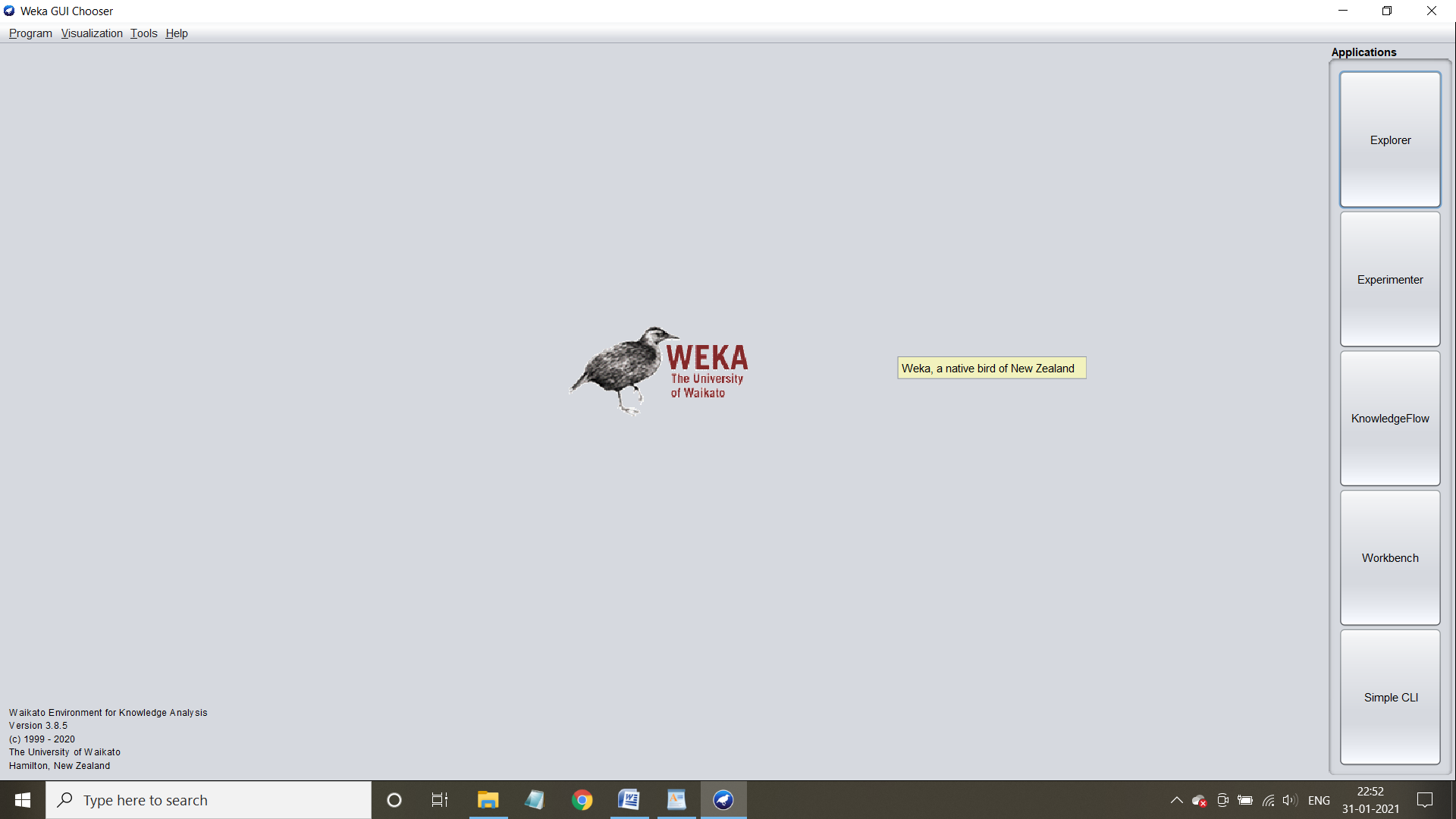
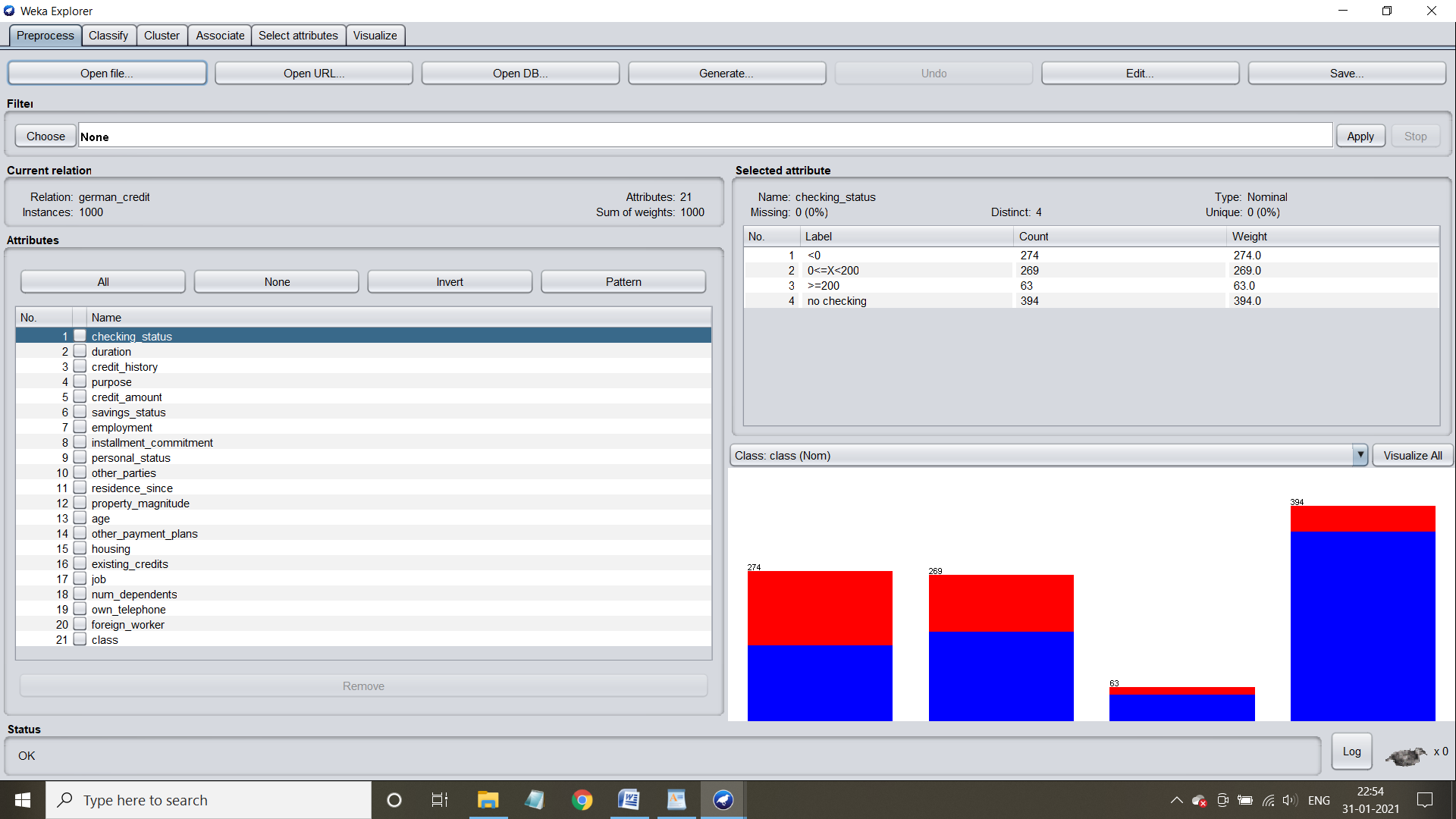
**Naive Bayes application**

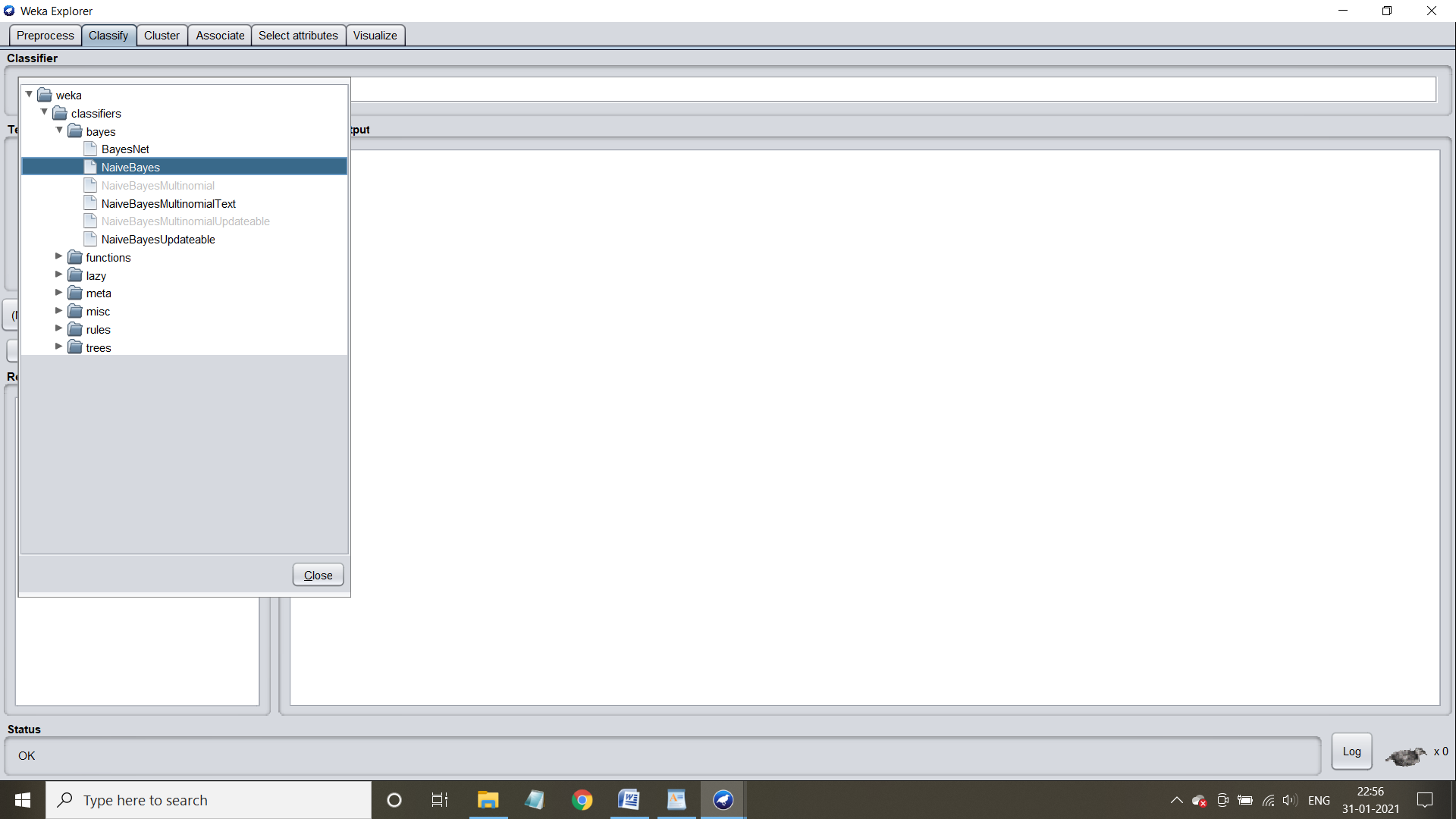
# Step 1: Open weka explorer



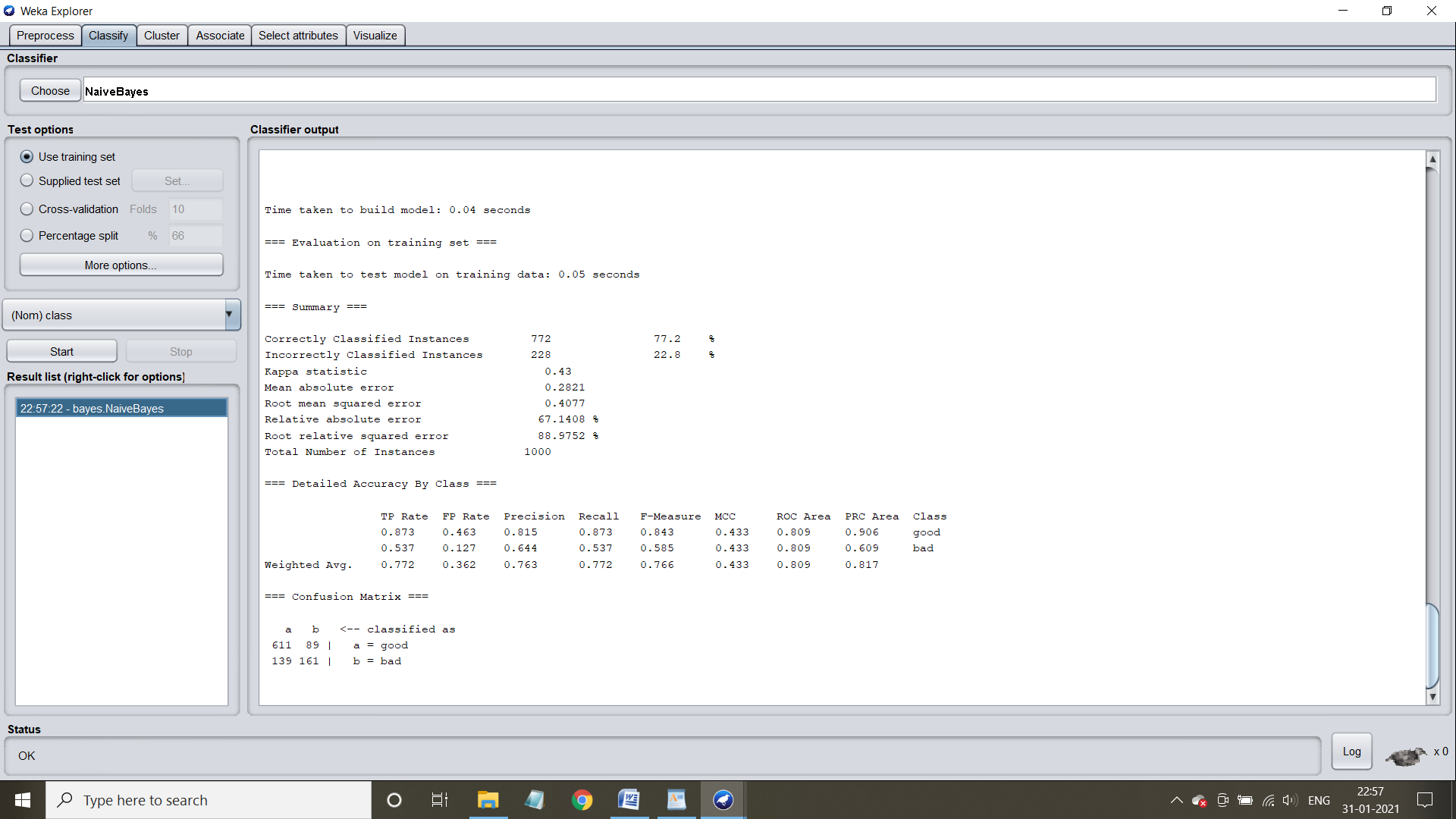
Step 2: Load German credit data set into weka



3. Select the classify tab and choose naive bayes option



**Application of Naive bayes using training set**

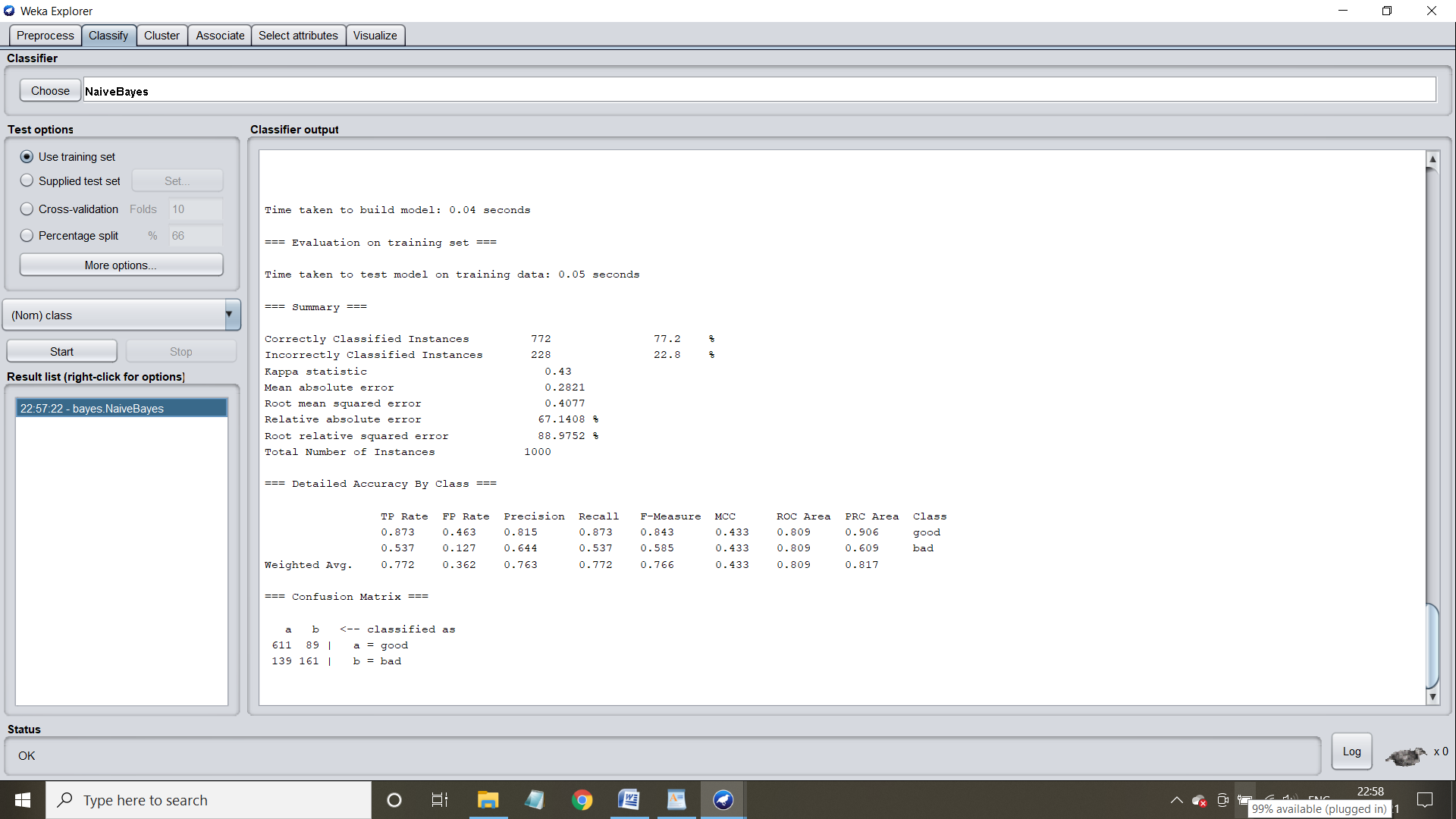
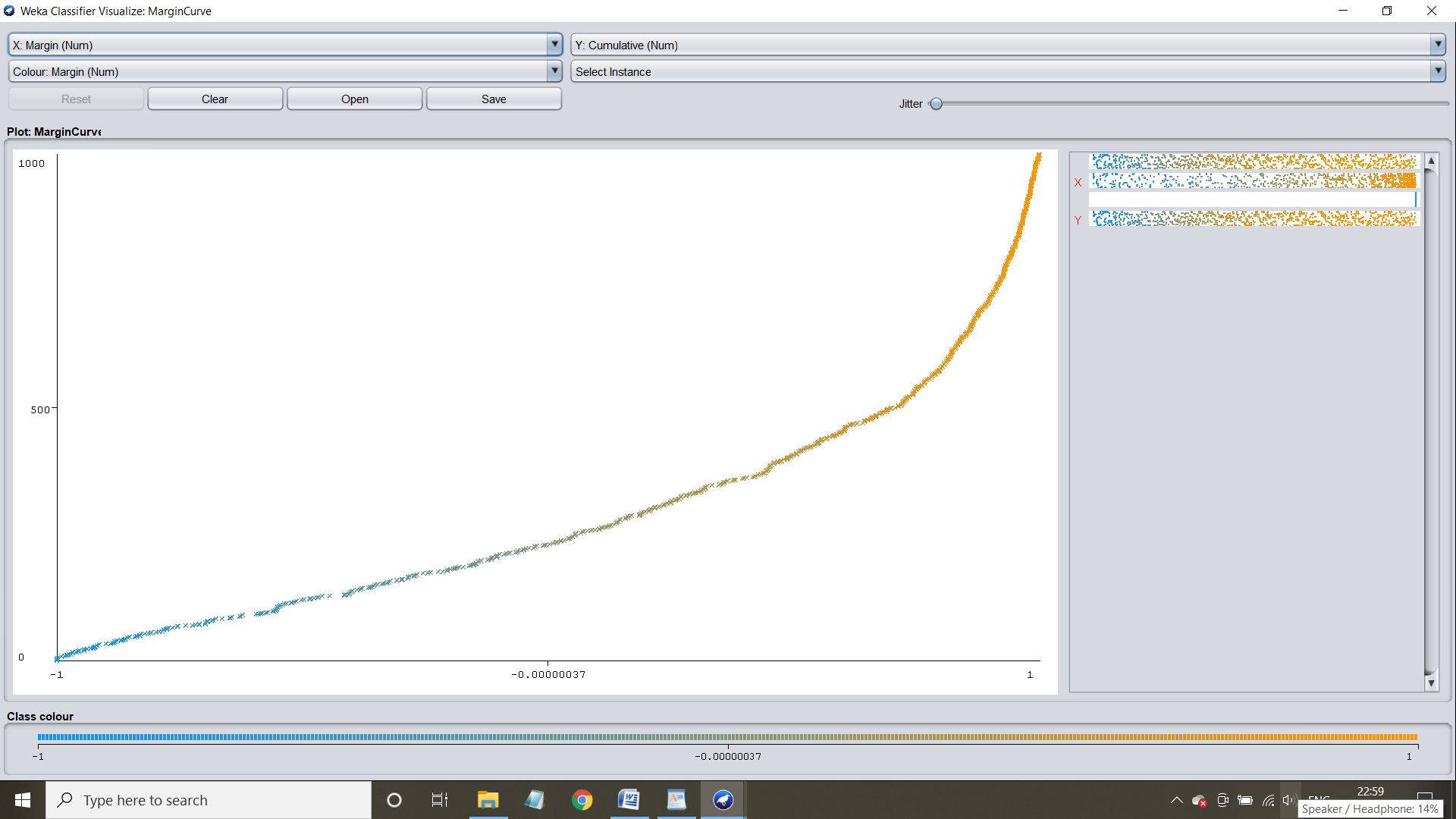


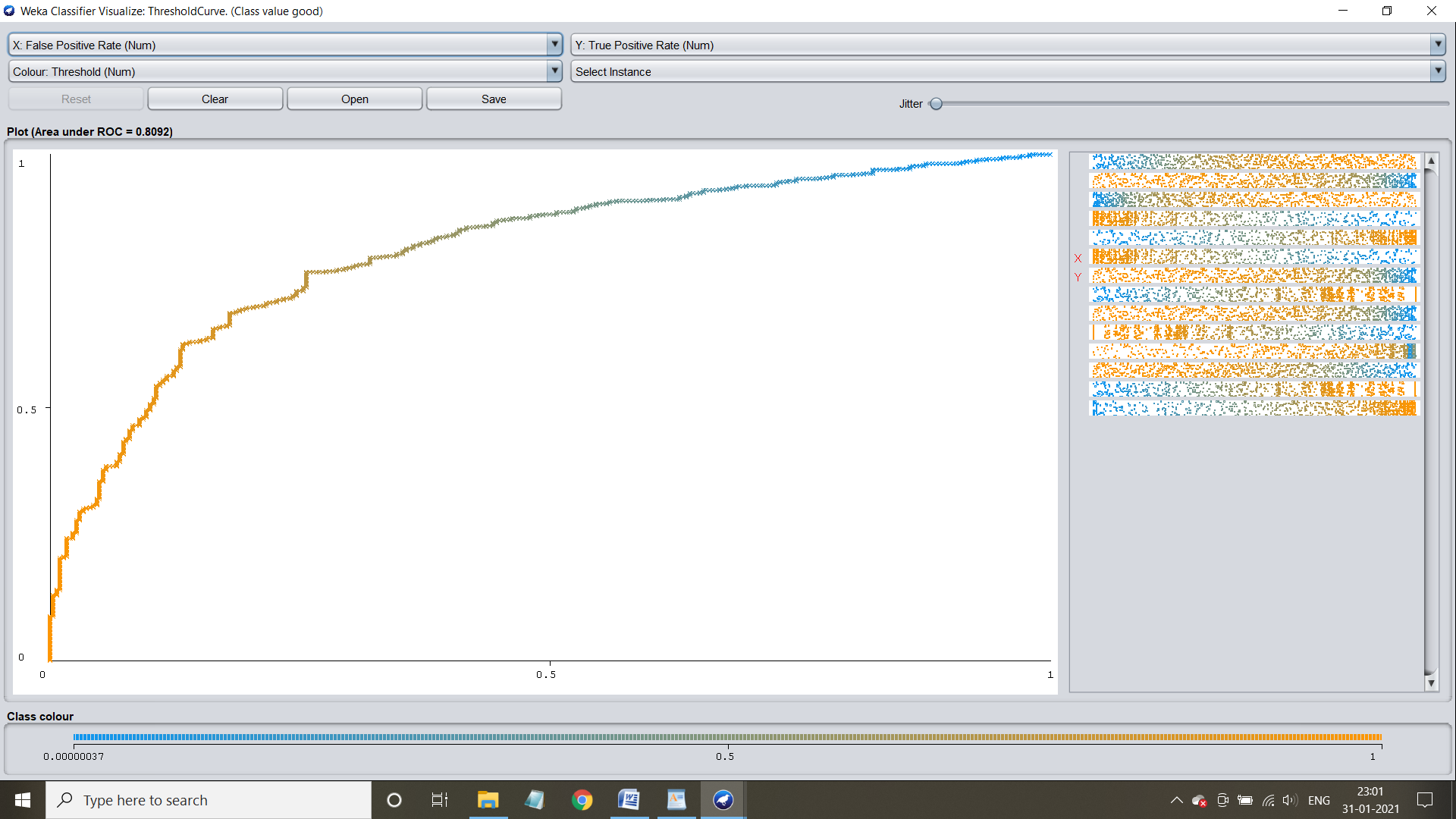
Step 2: Understand the characteristics of the algorithm

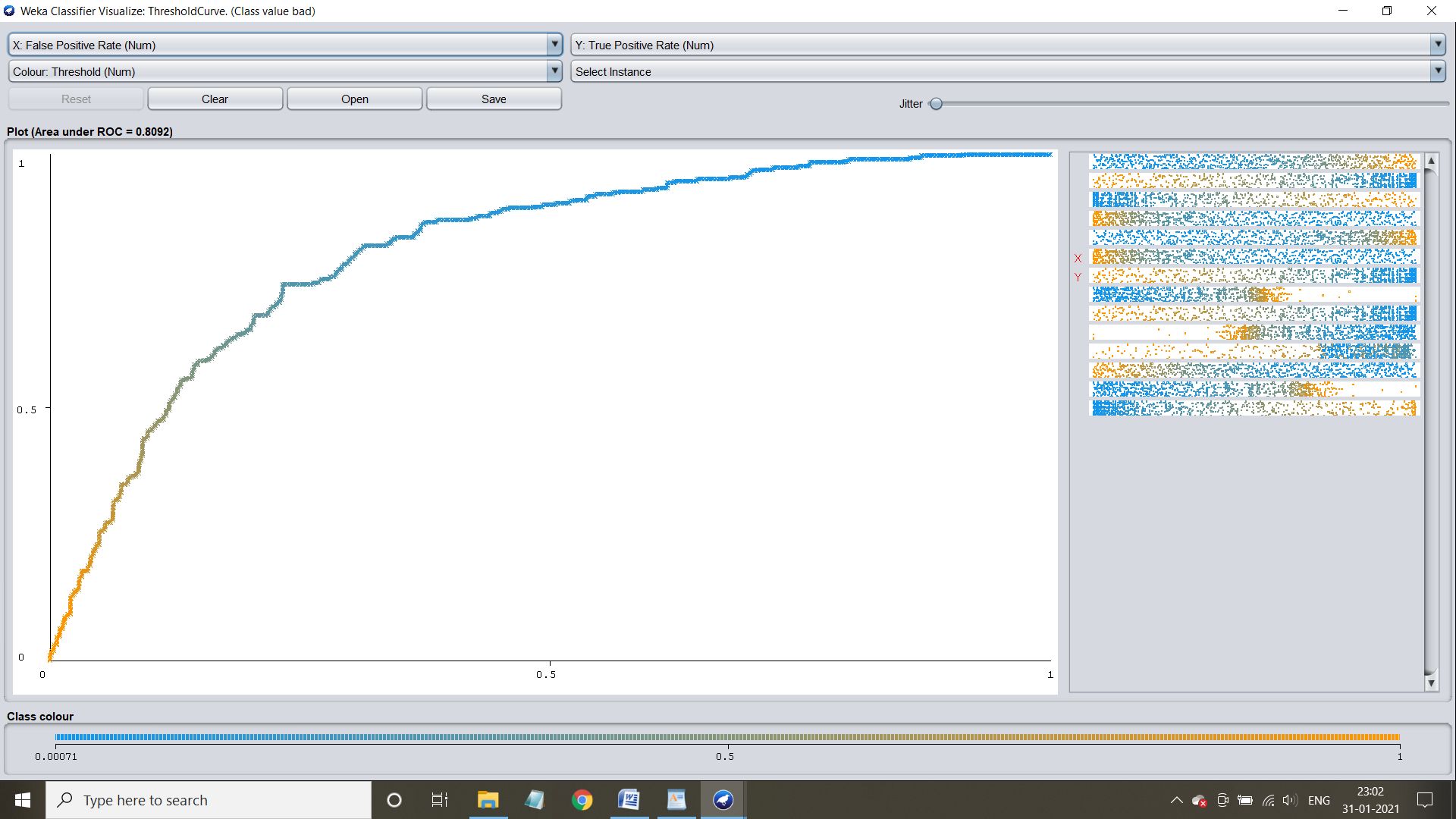
Time taken to bulid the model = 0 seconds

Time taken to test the model on the training data = 0.05 seconds

**Confusion matrix and accuracy**:

**Visualization of the model - Margin Curve:**

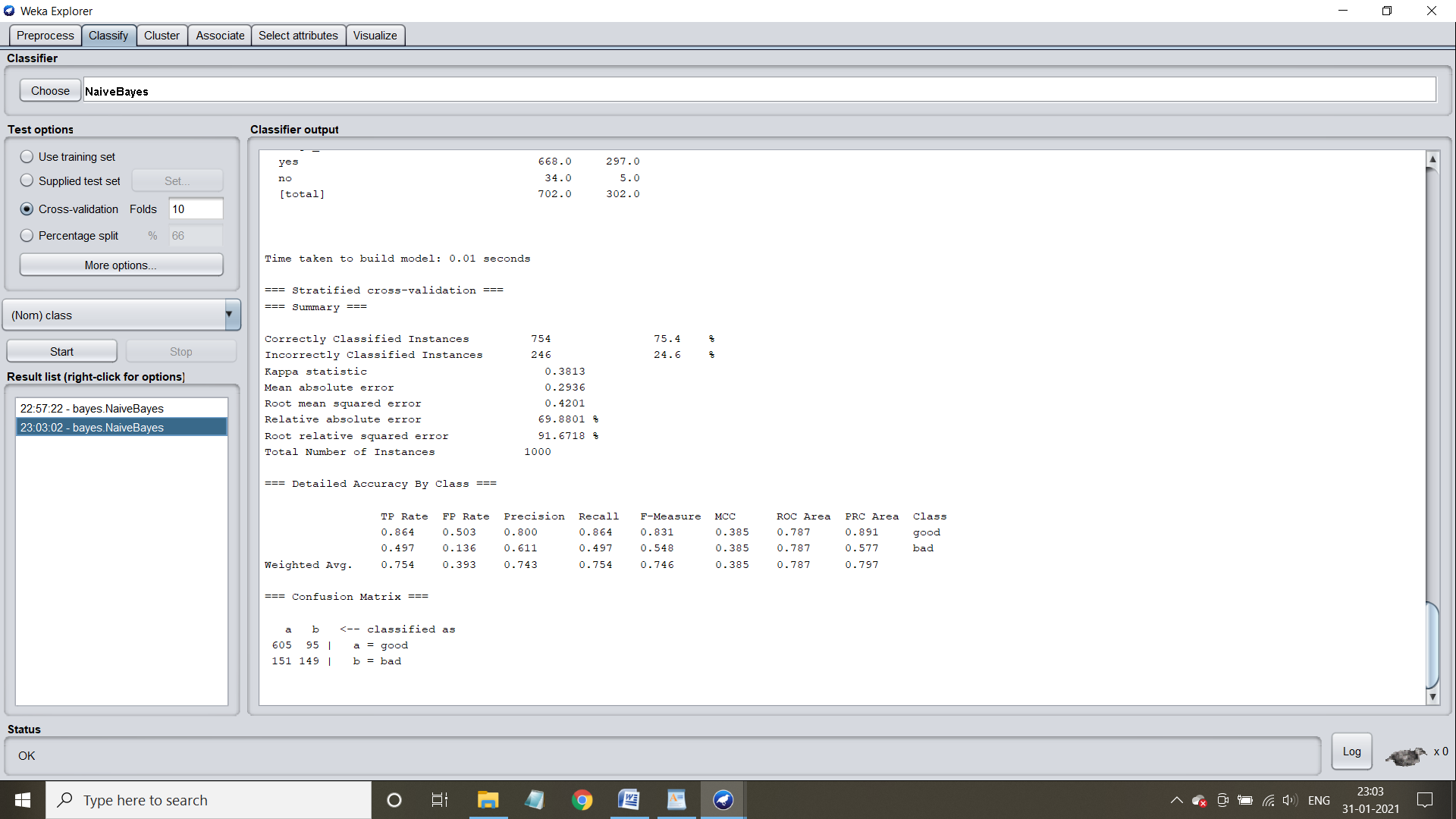
**Threshold curve for the class: Good**

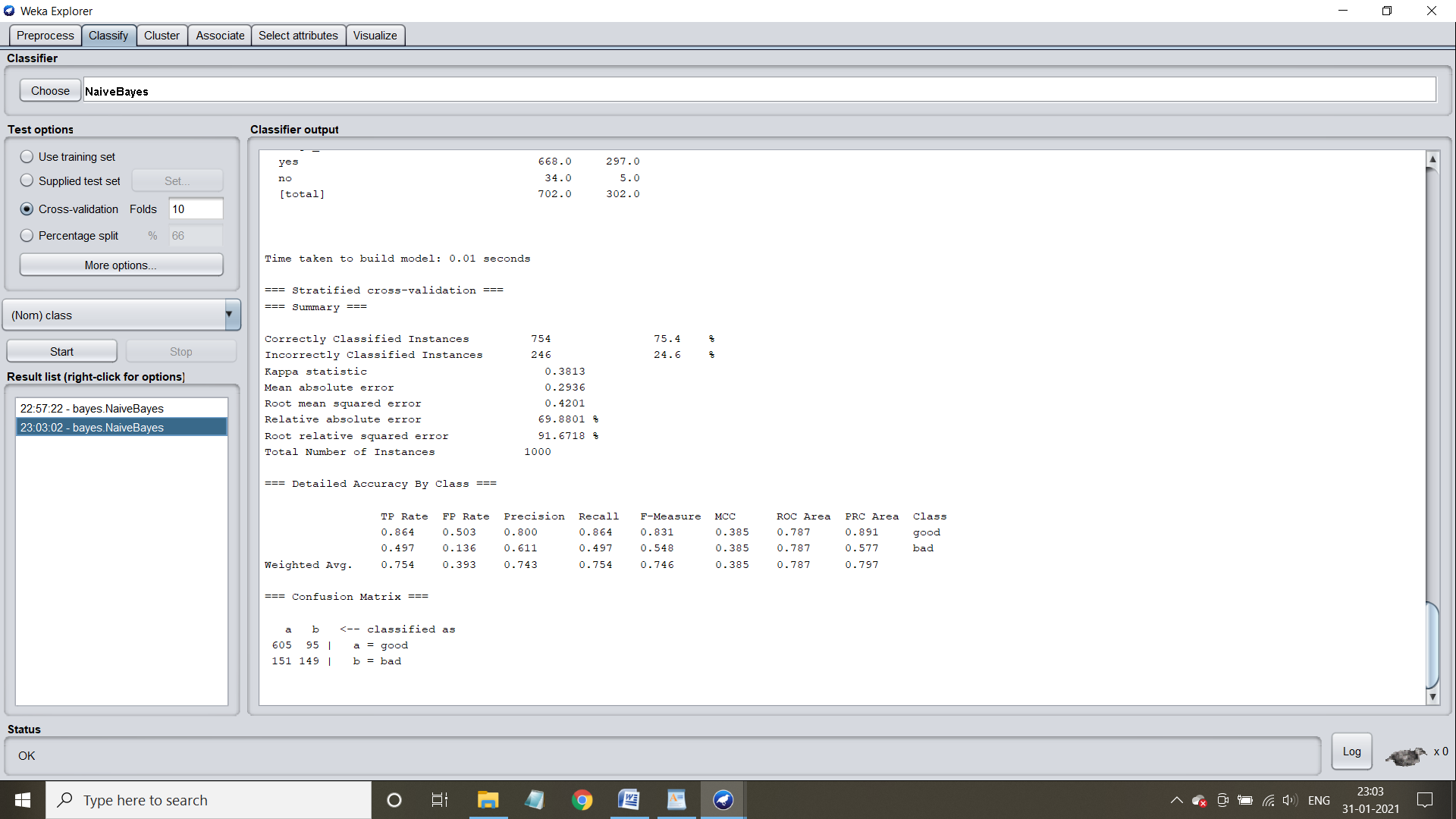
**Threshold curve for class: Bad**

**Application of naive bayes using cross-validation**

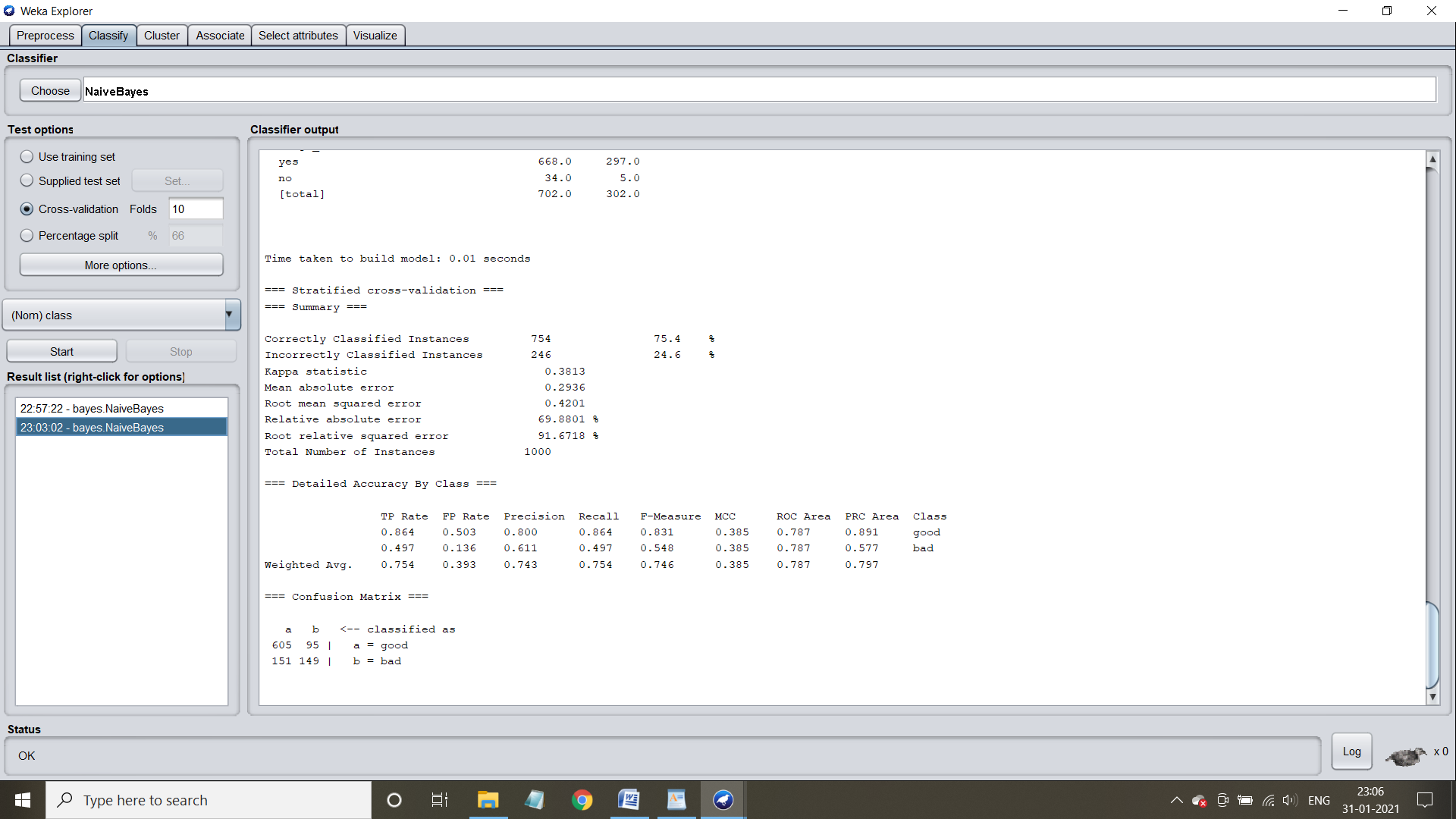
**Case1:** application when fold count is 10

Step1 :Select the cross-validation and specify count of fold = 10



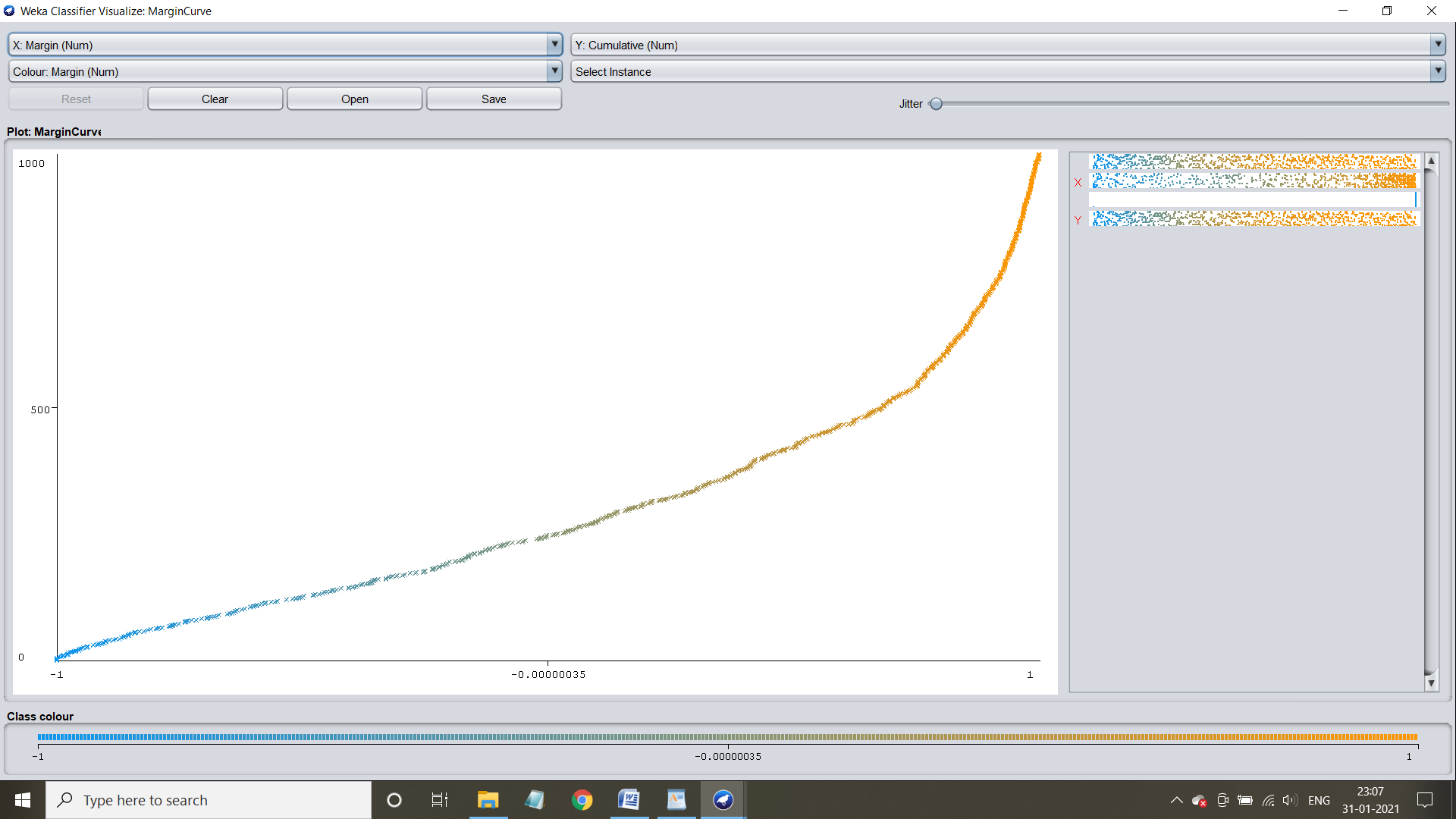
Step 2: Understand the characteristics of the model.Time taken to build model =0.01 seconds

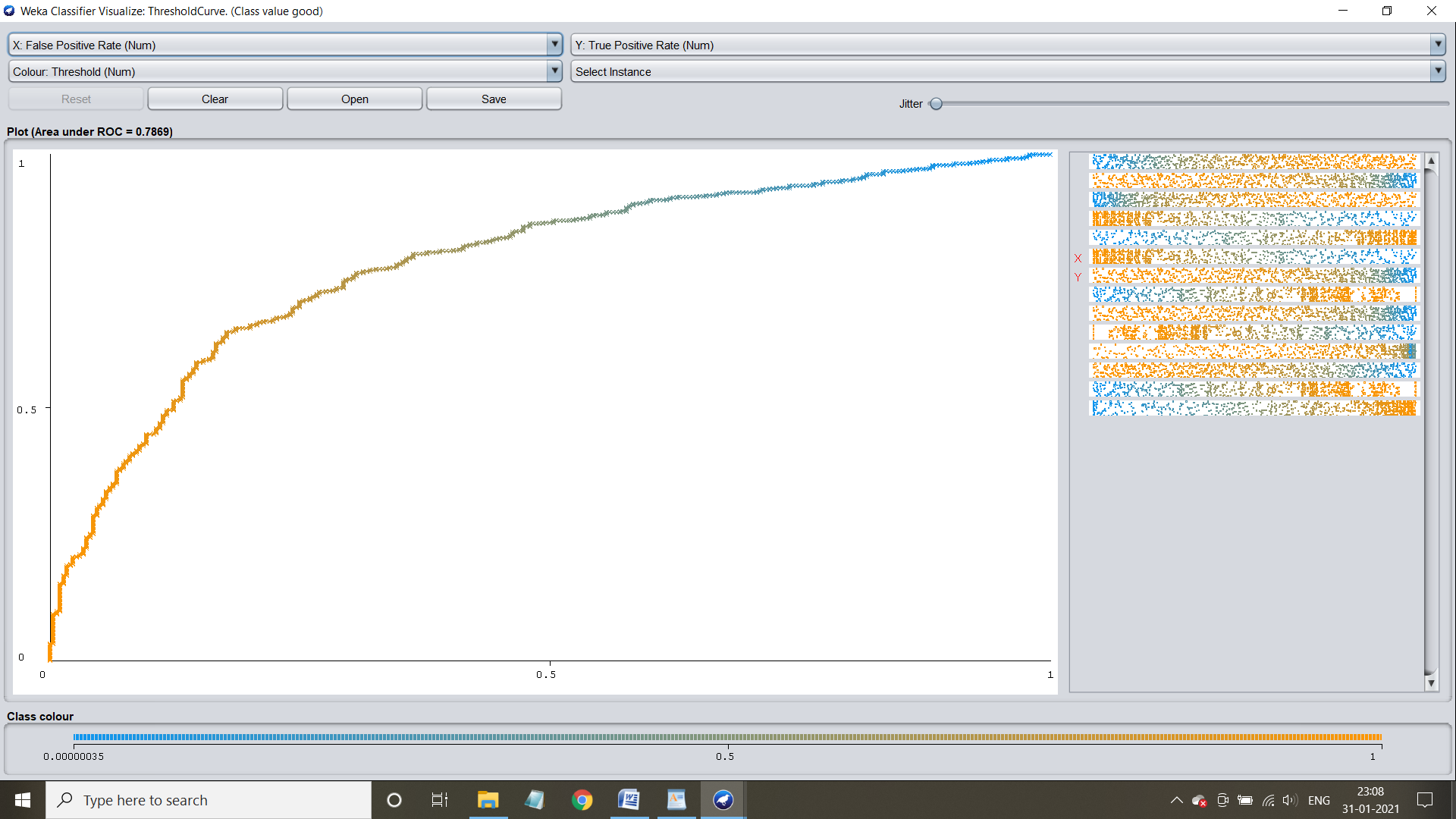
Confusion matrix and accuracy:



Visualization of the model

**Margin Curve:**



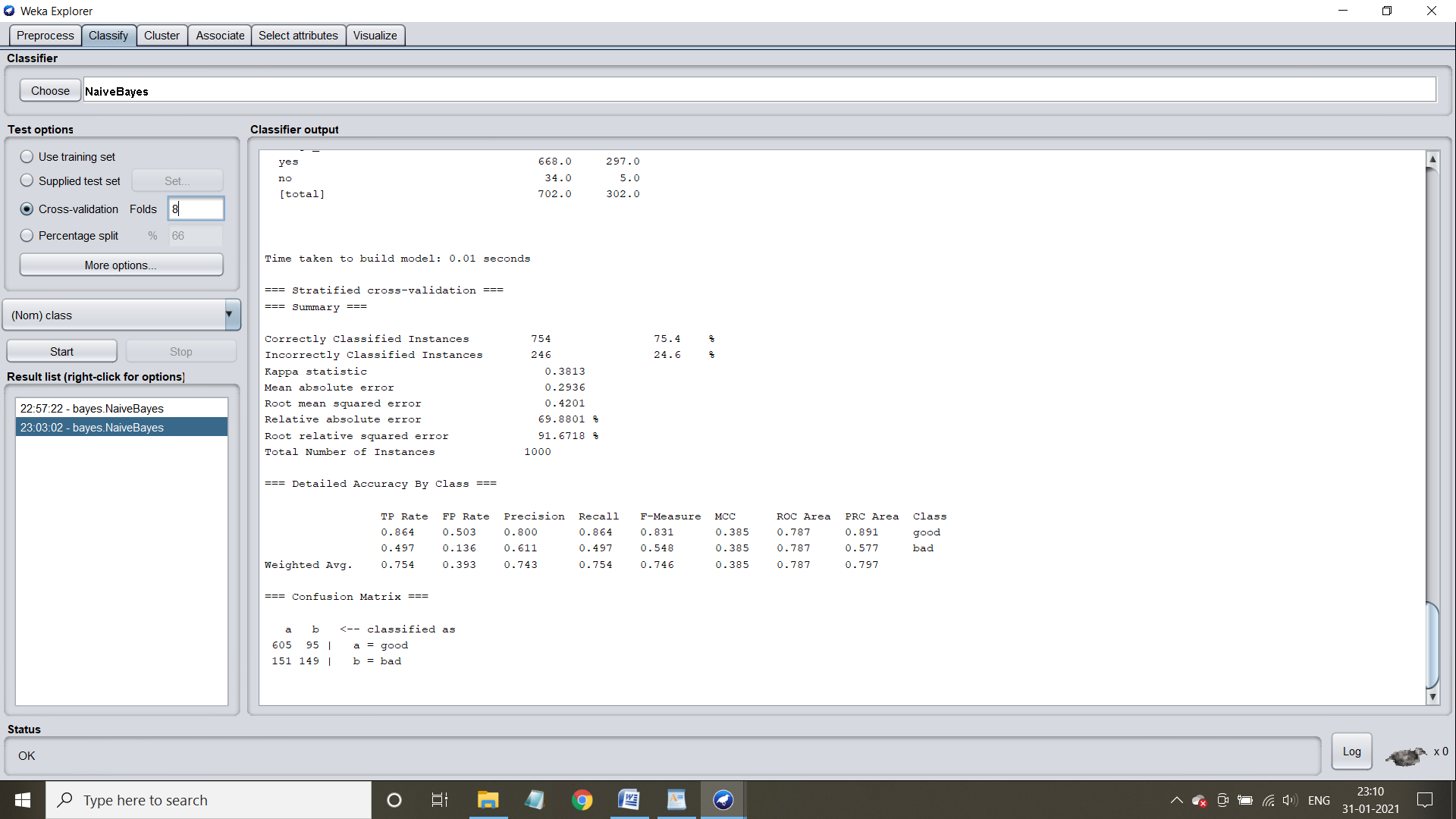
**Threshold curve for the class: Good**

**Threshold curve for the class: Bad**

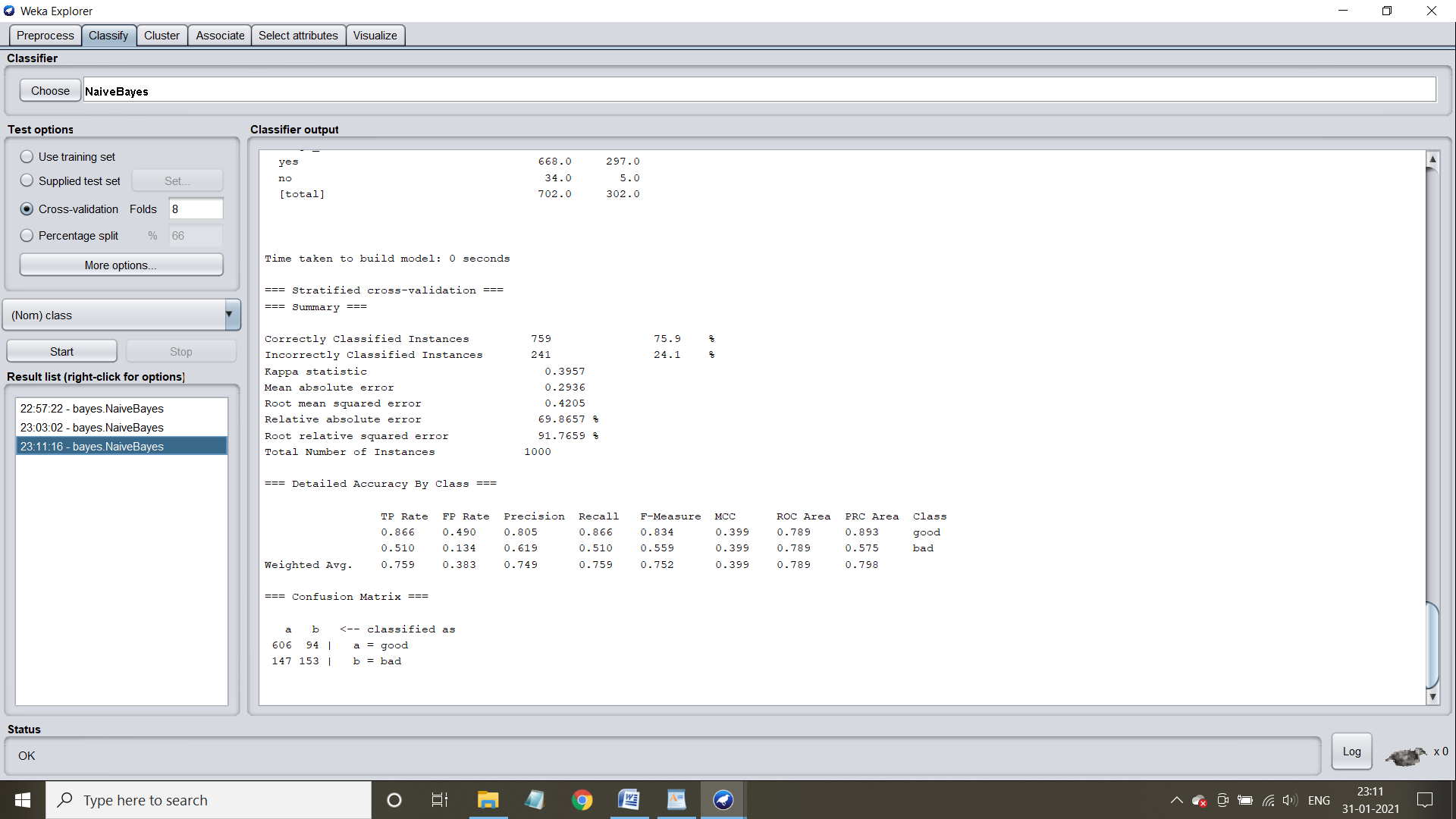


**Case 2:** Application when fold count=8

Step 1: Select the cross-validation and specify count of fold = 8

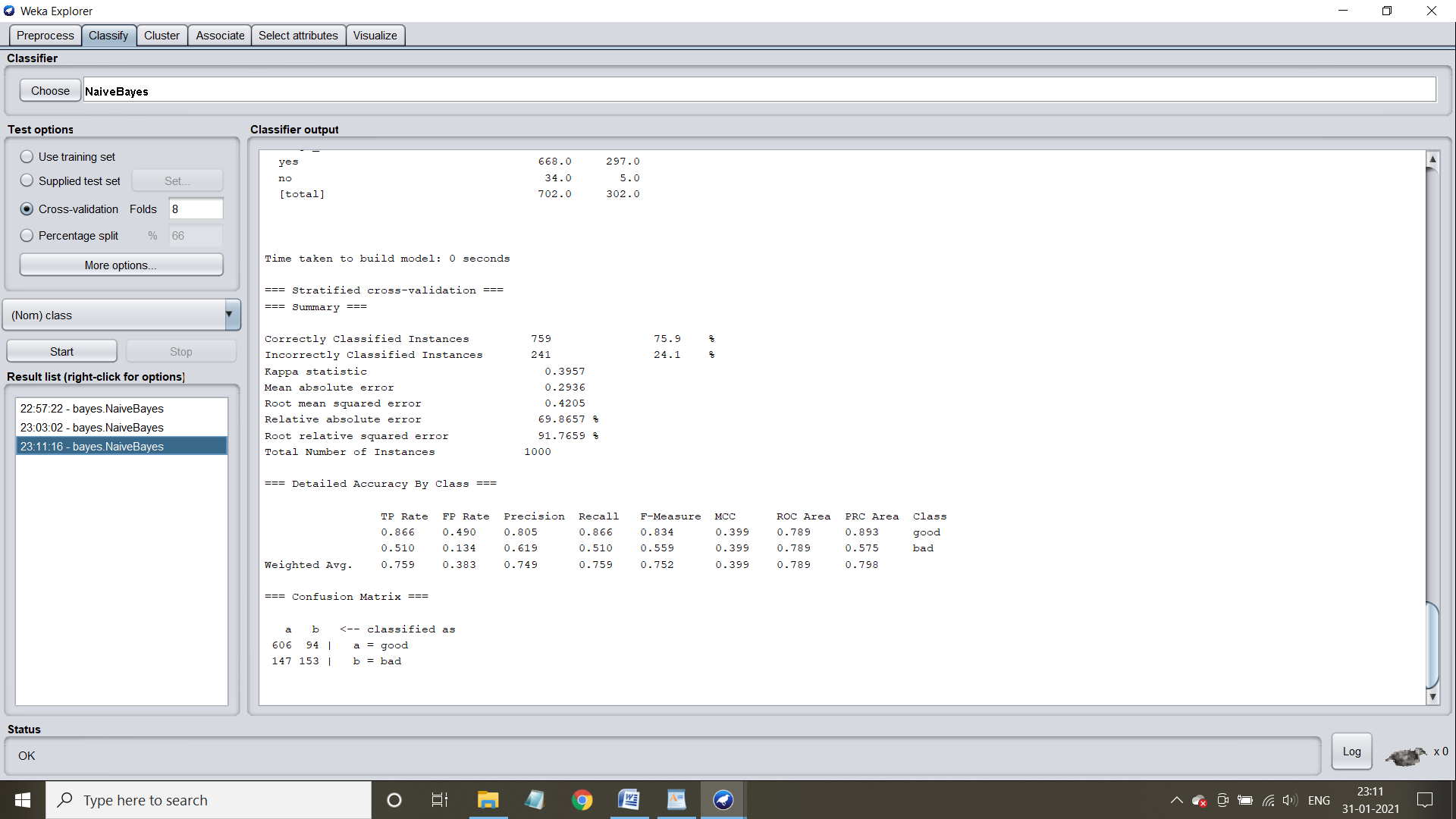


Step 2: Train the machine by clicking start button

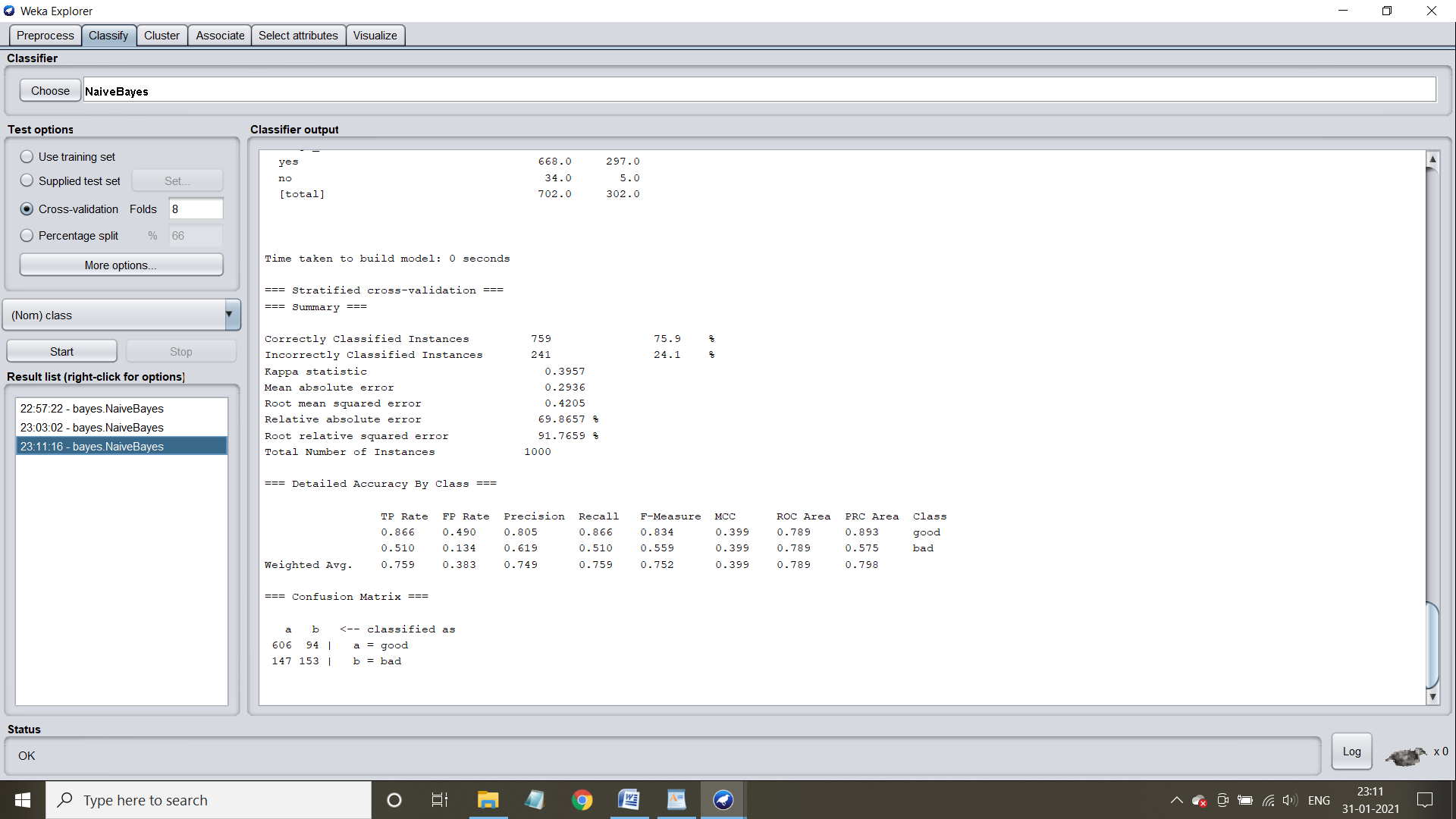


Step 3: Understand the characteristics of the model

Time taken to build the model =0 seconds

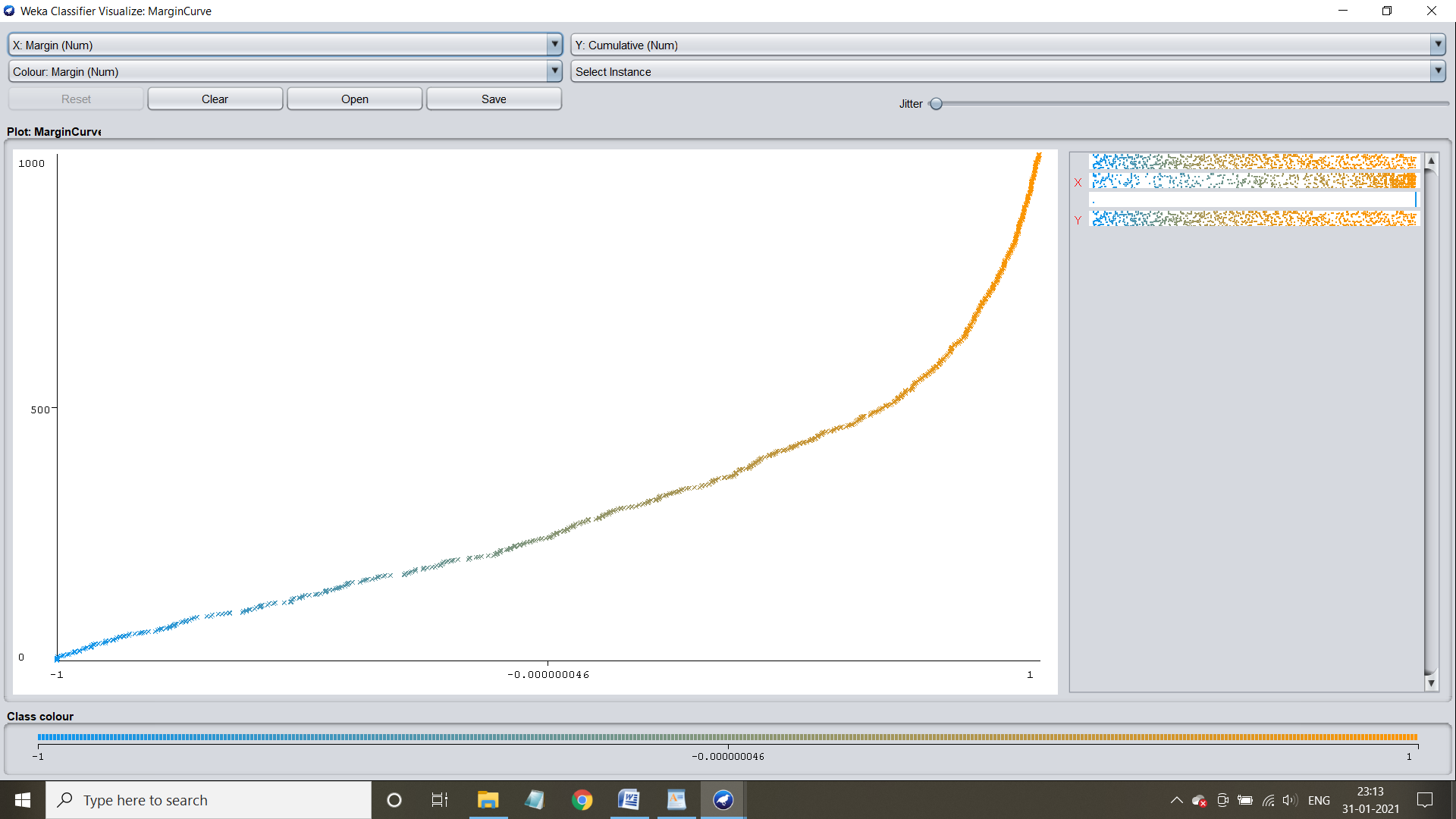


Confusion matrix and accuracy :

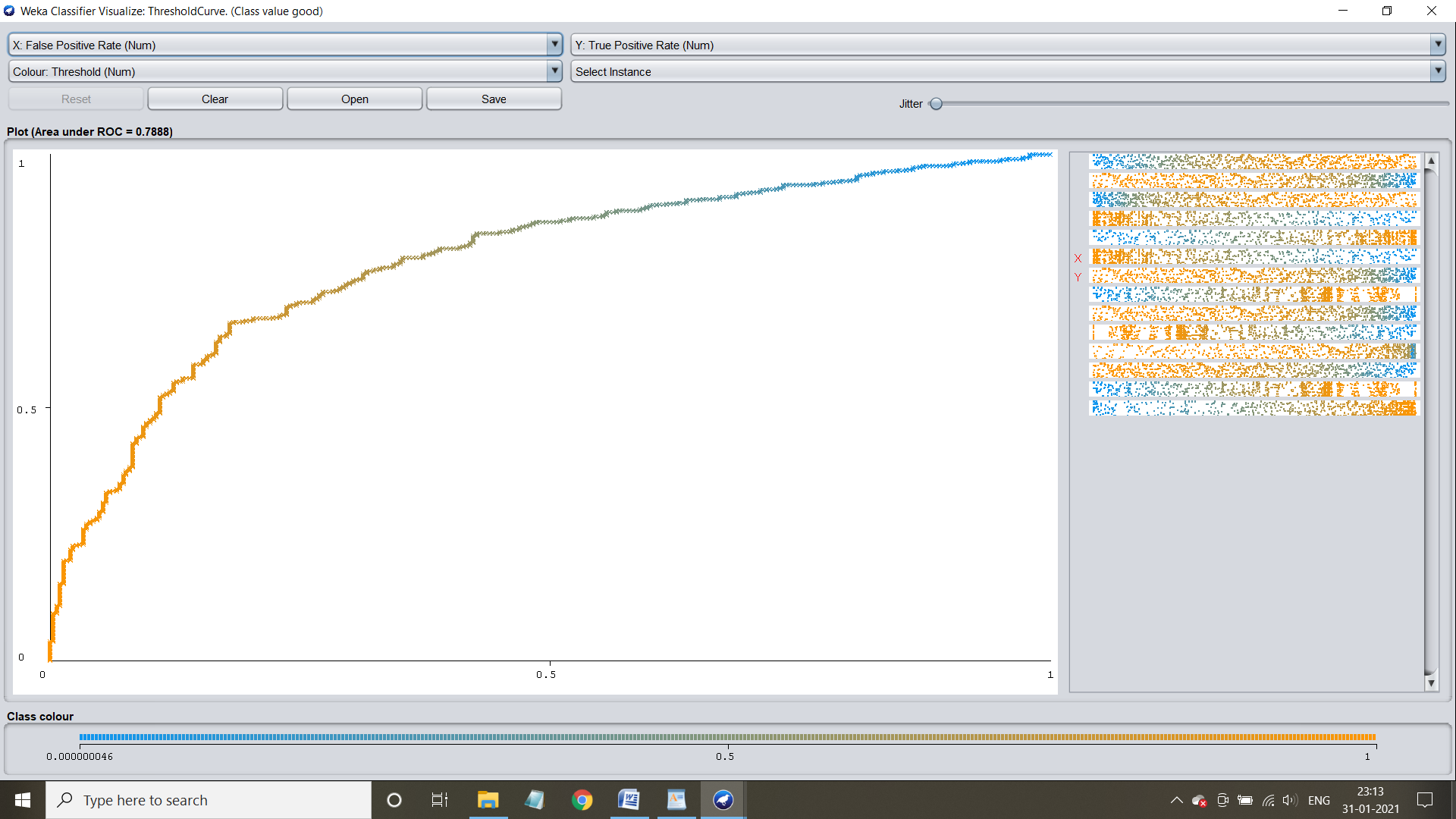


**Visualization of the model:**

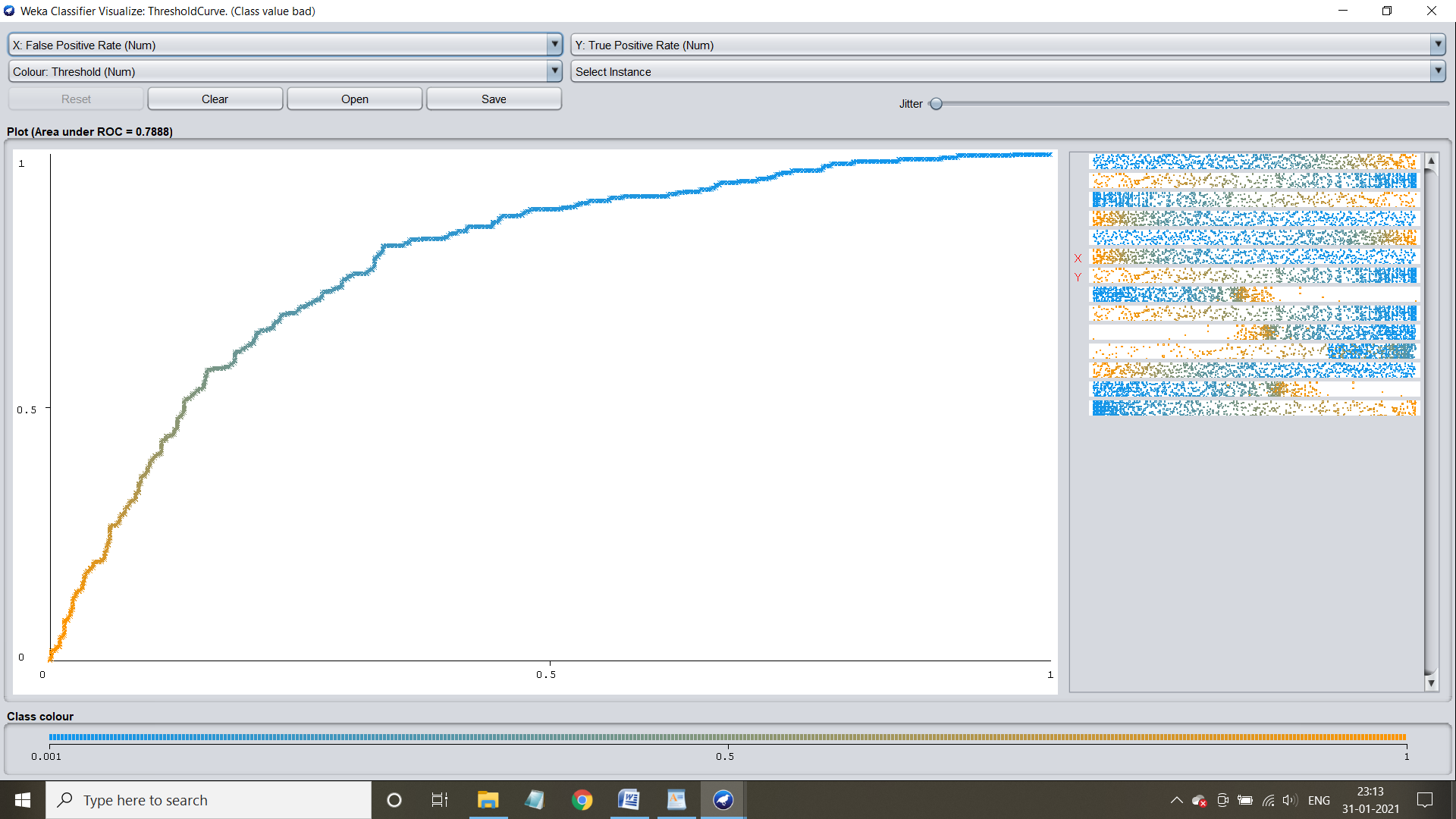
**Margin Curve:**



**Threshold curve for class: Good**



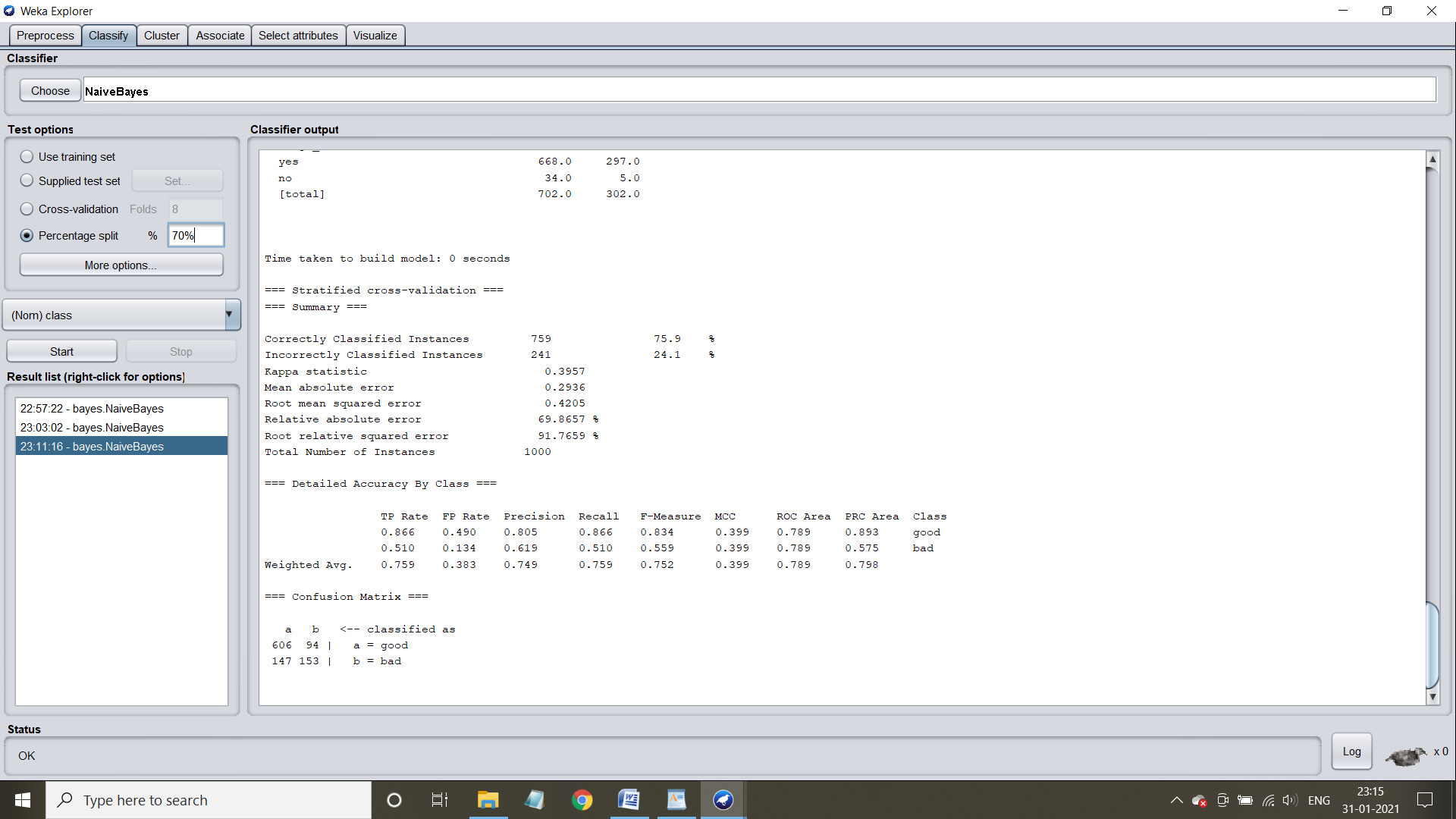
**Threshold curve for class: Bad**



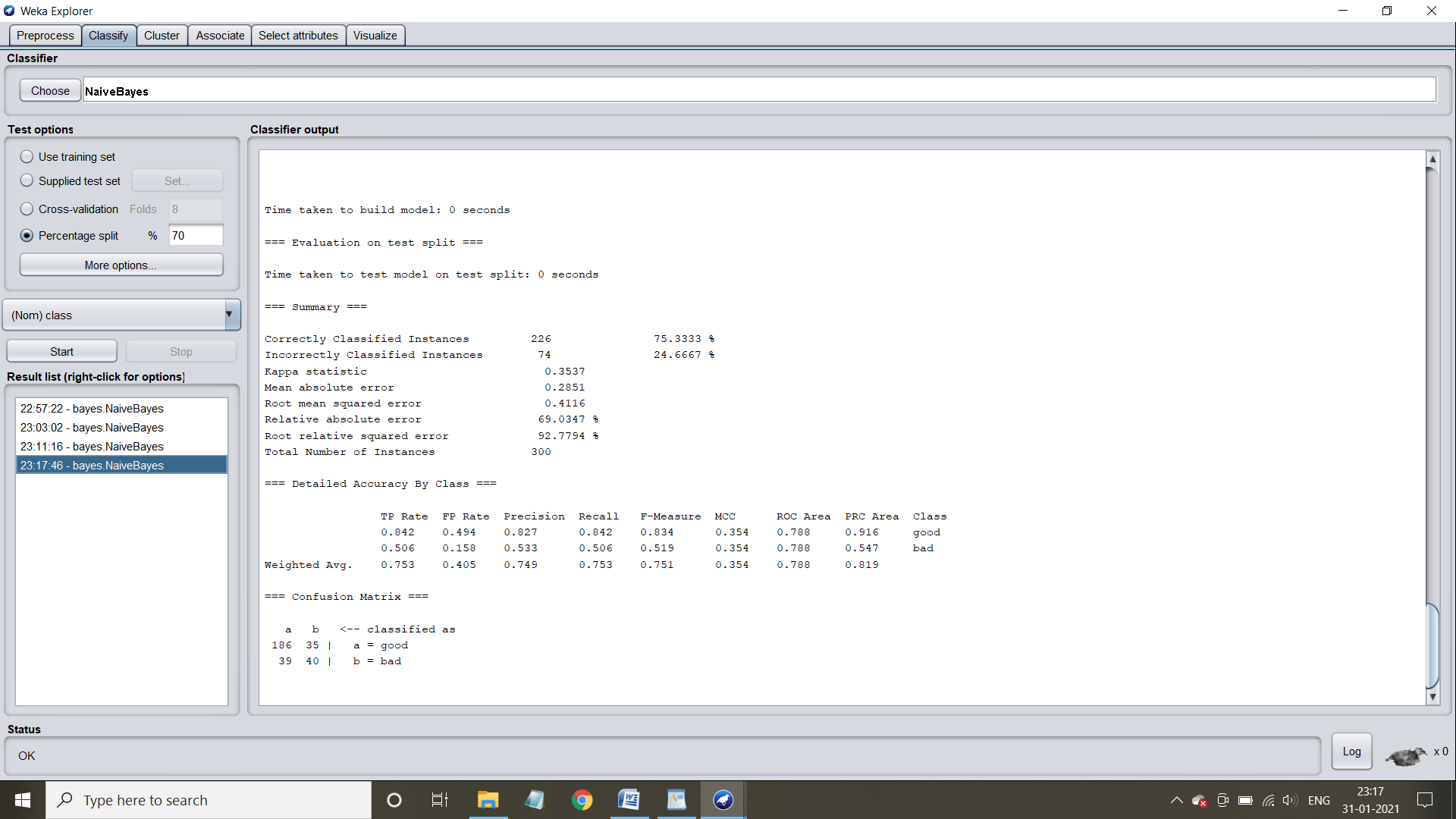
**Application of naive bayes using percentage splitting**

**Case 1:** Application when the percentage splitting is 70%

Step 1: Select the percentage split option and specify the percentage required:70%



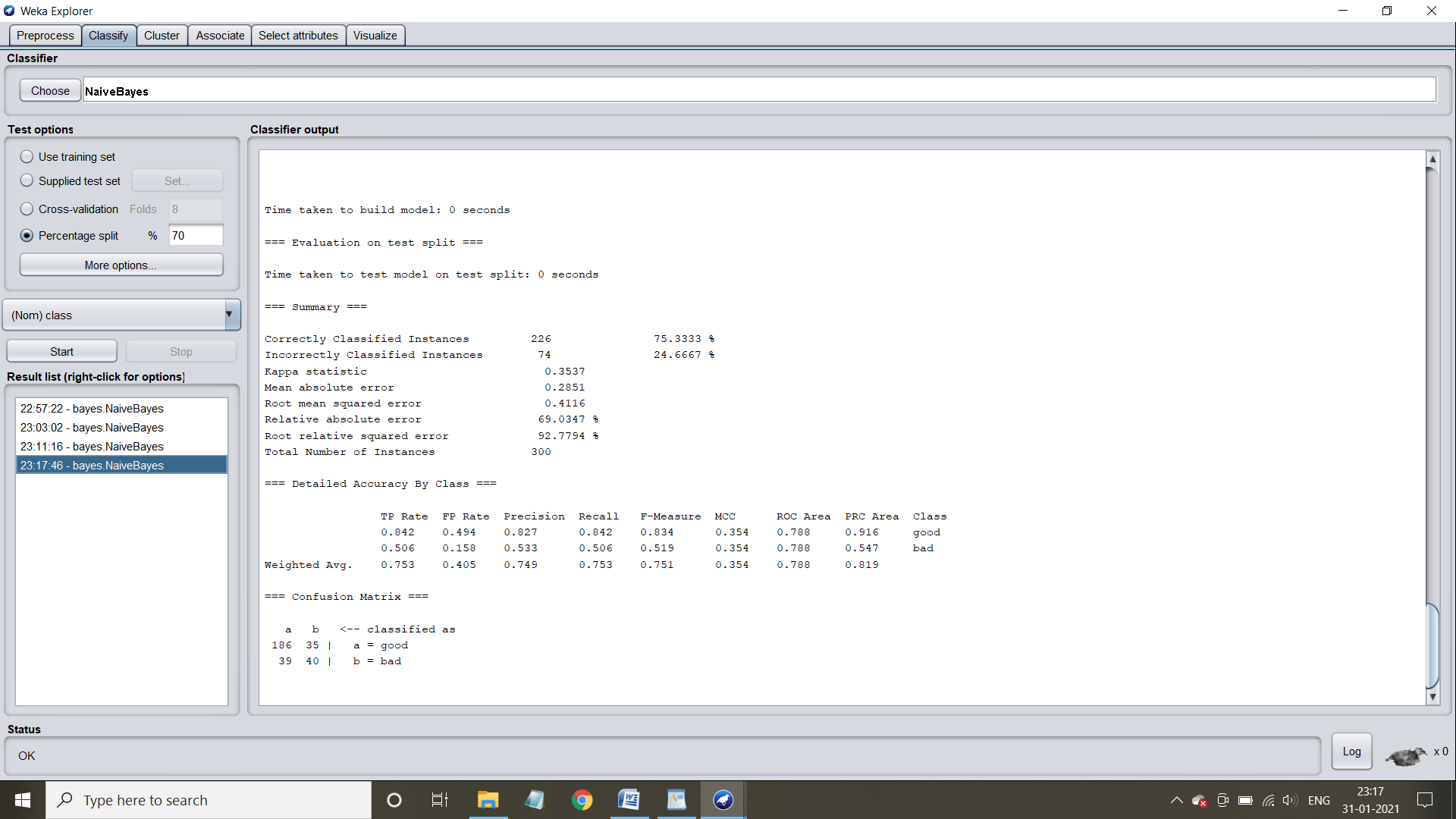
Step 2: Train the machine by hitting start button



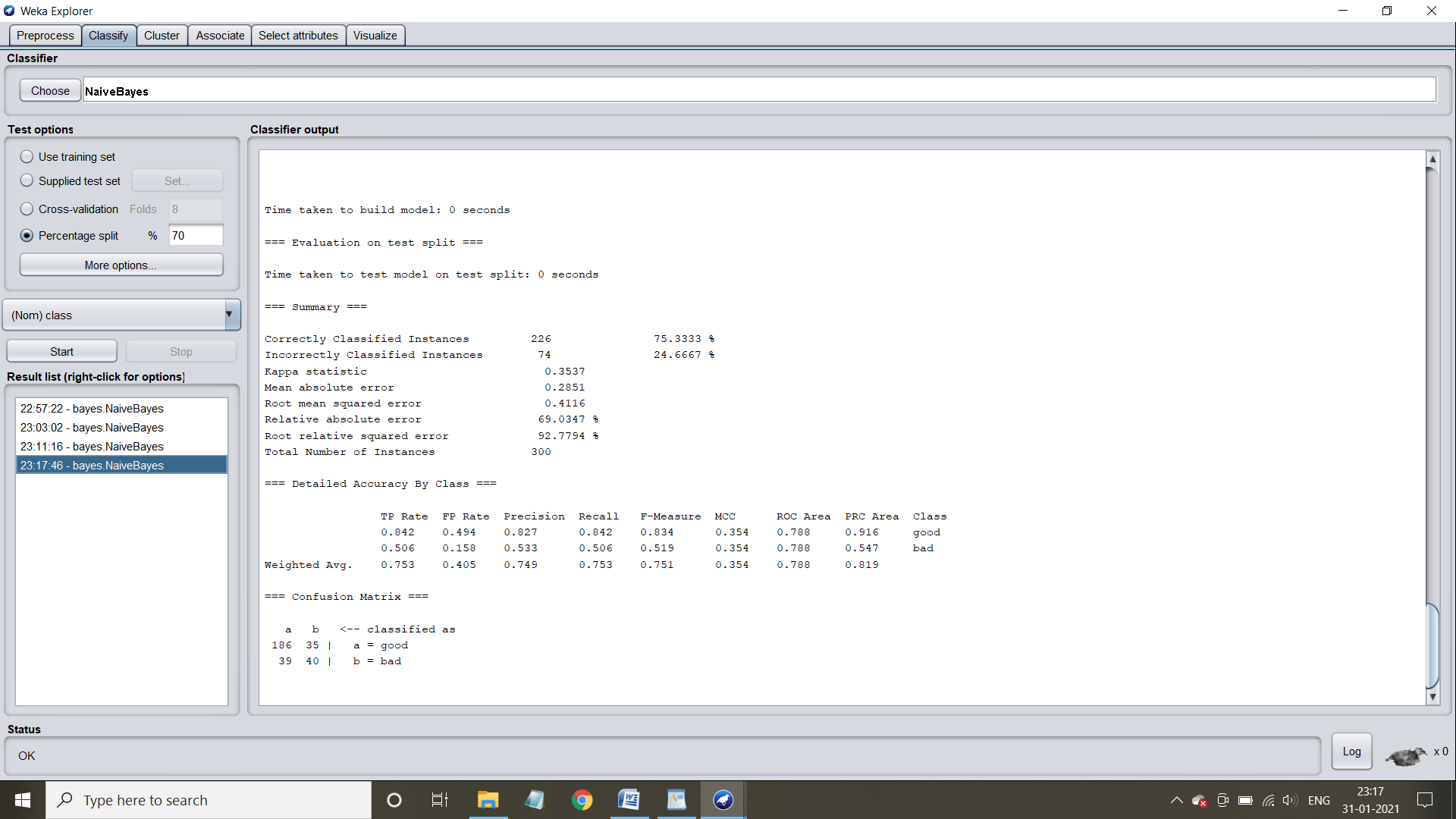
Step 3: Understand the characteristics of the model

Time taken to build the model=0 seconds

Time taken to test the model on the test split = 0 seconds

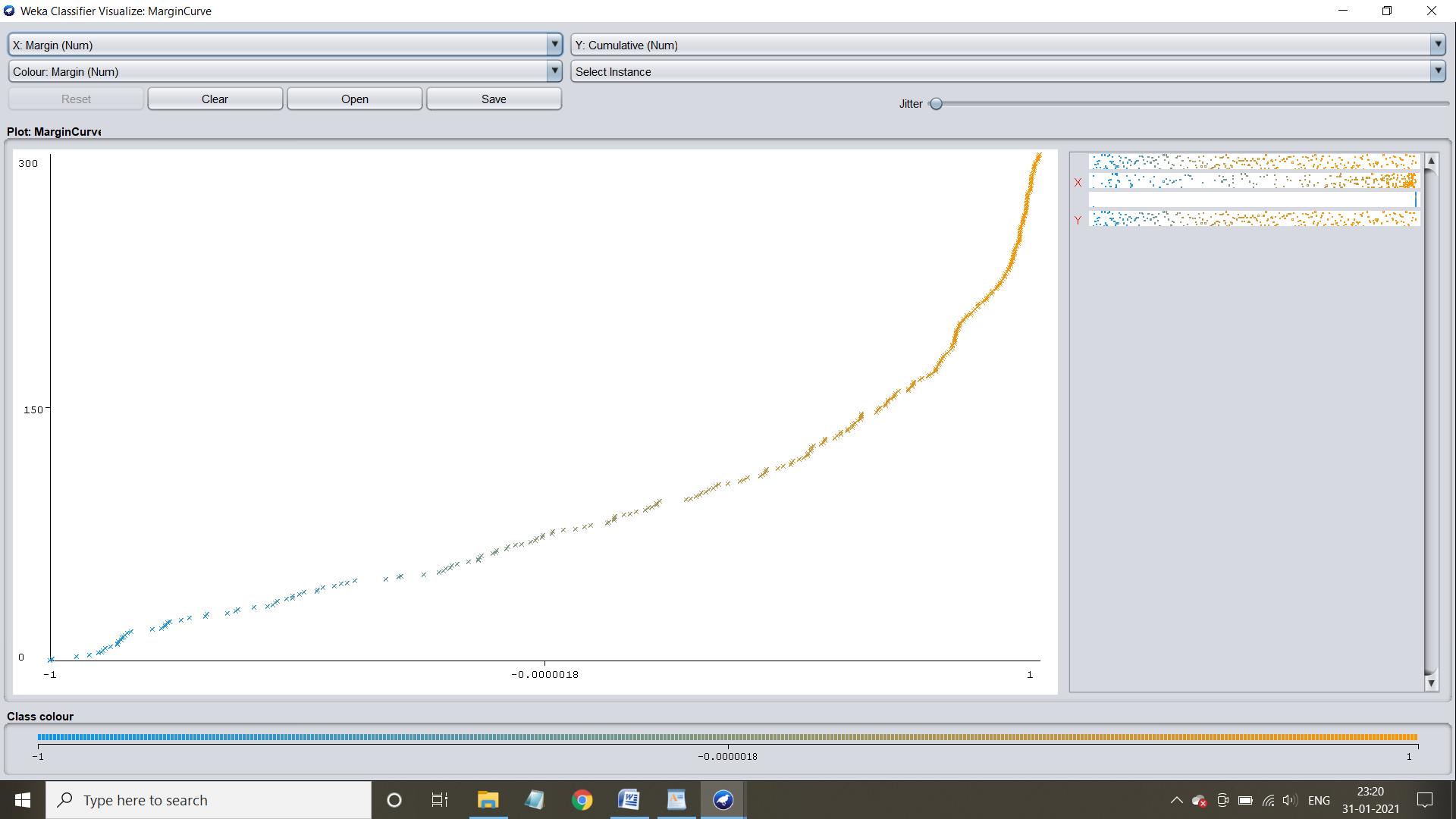


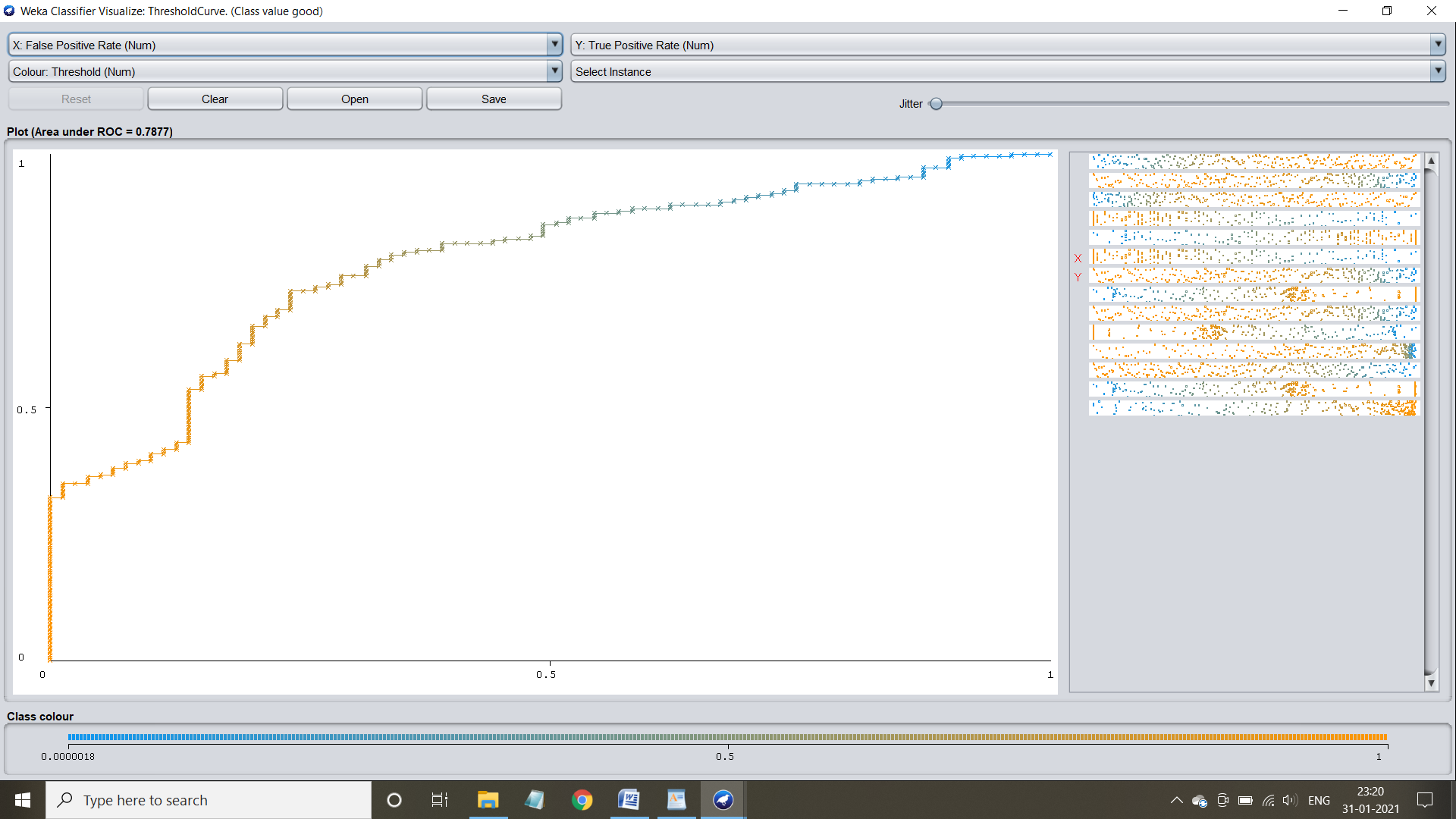
Confusion matrix and accuracy:



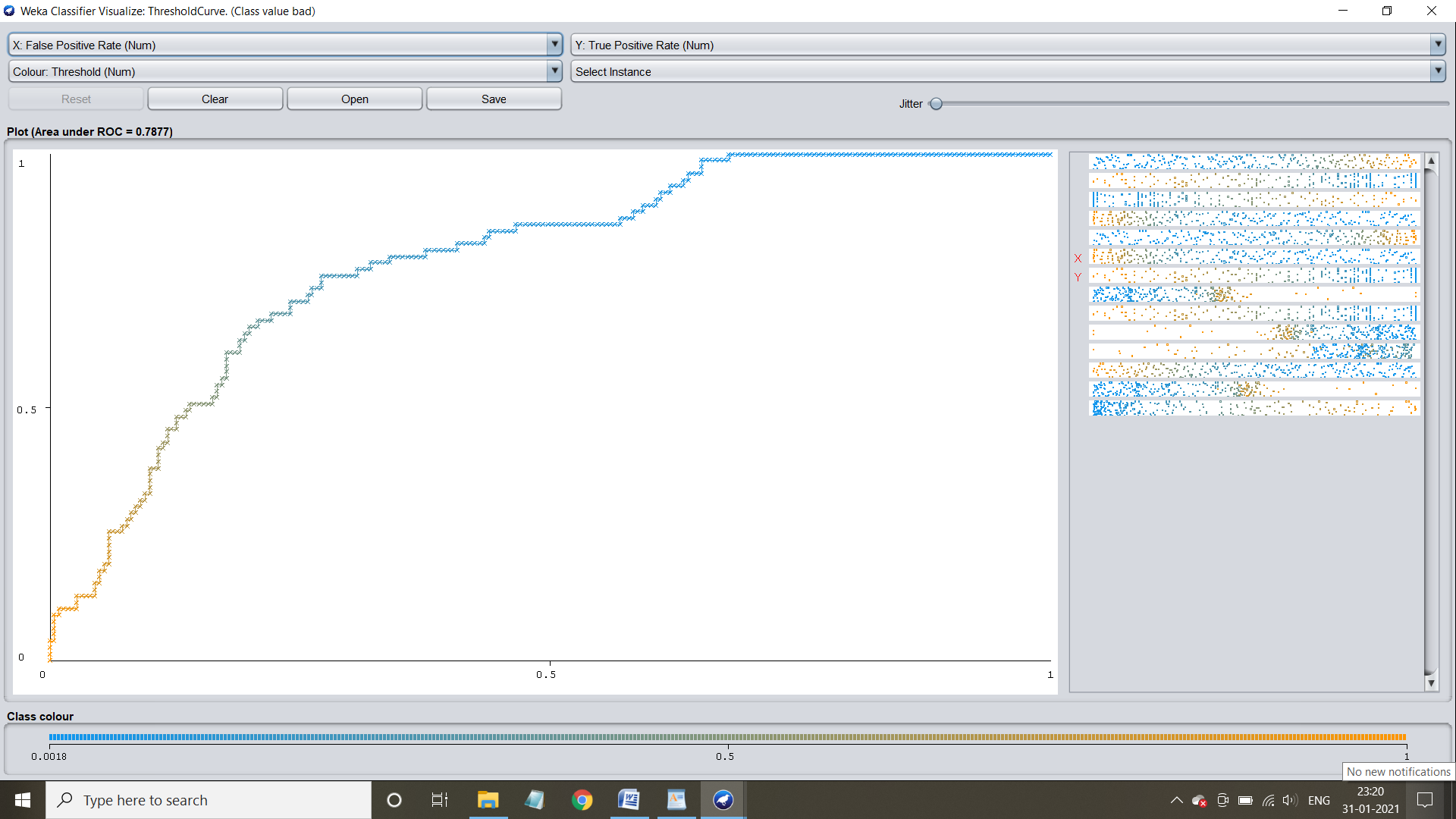
**Virtualization of the model:**

**Margin Curve:**



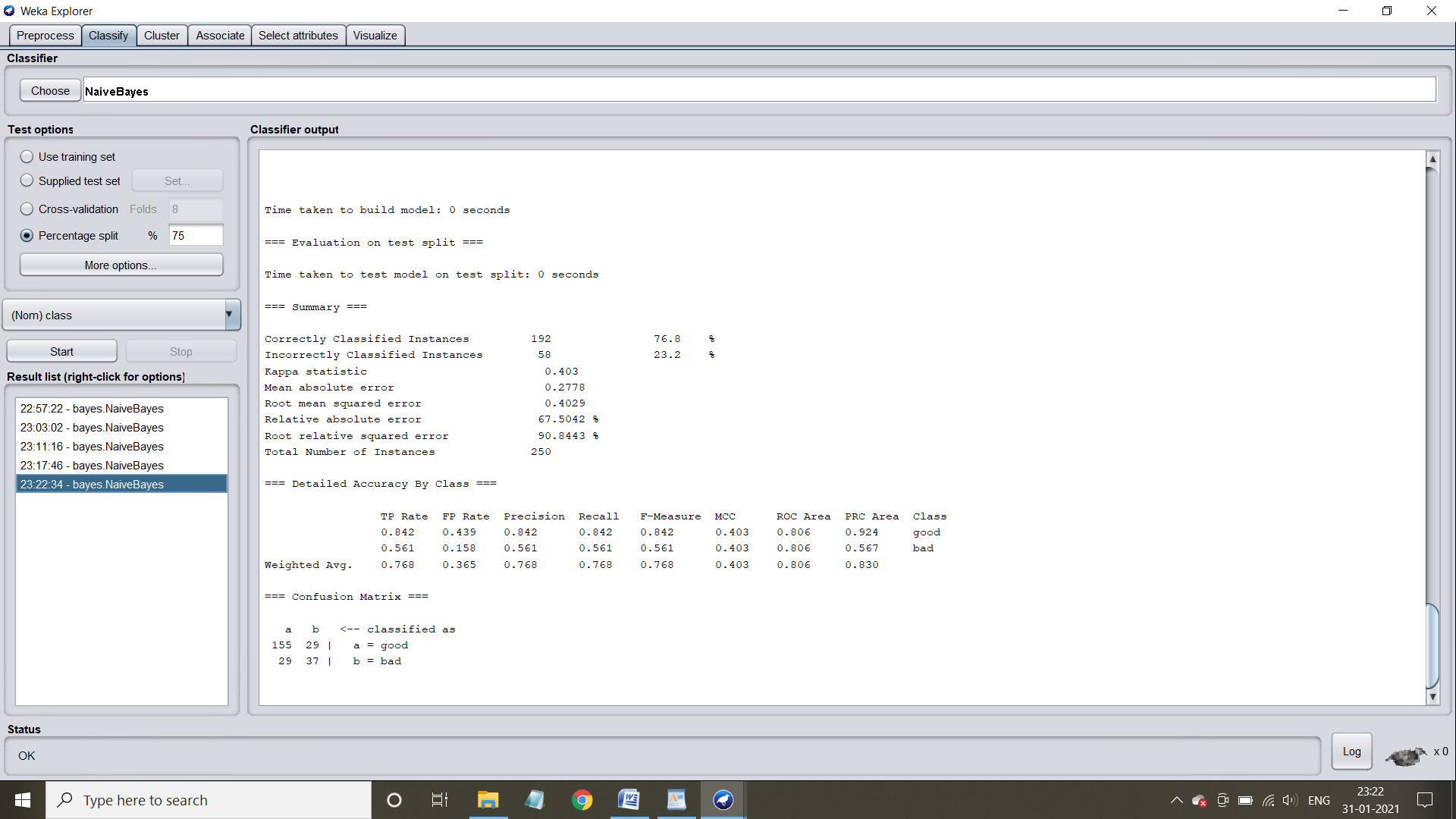
**Threshold curve for class: Good**

**Threshold curve for class: Bad**



**Case 2:** Application when the splitting percentage is 75%

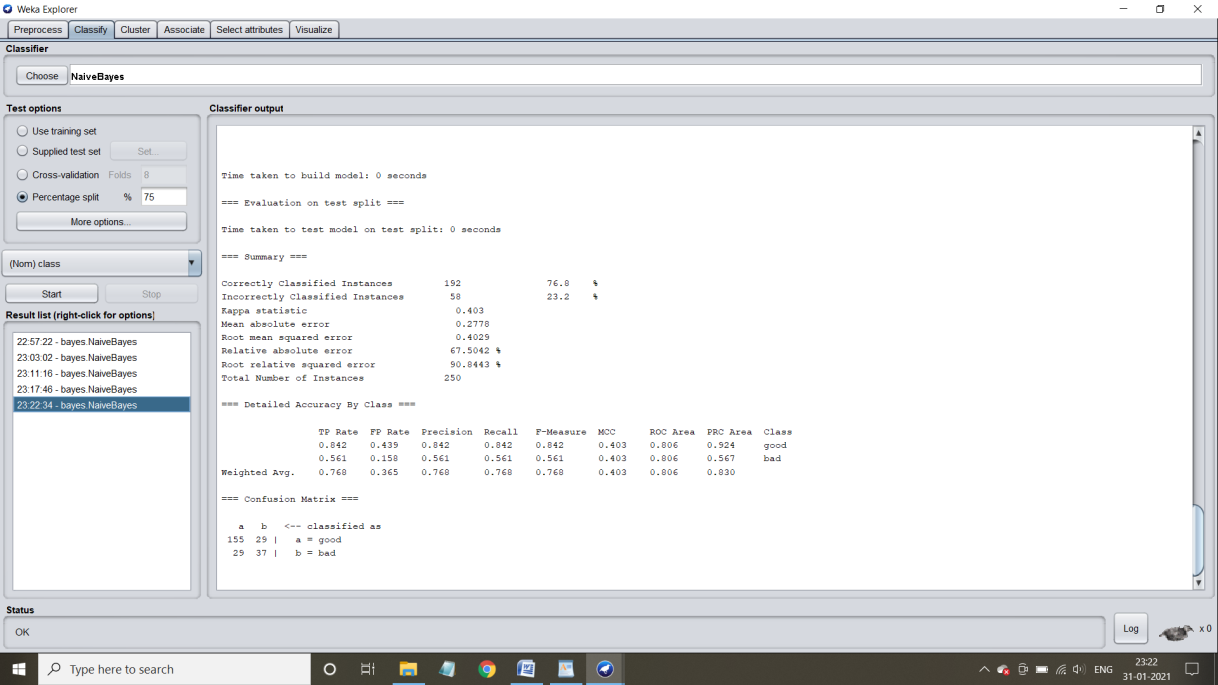
Step 1: Select the percentage split and specify it as 75% and click start button



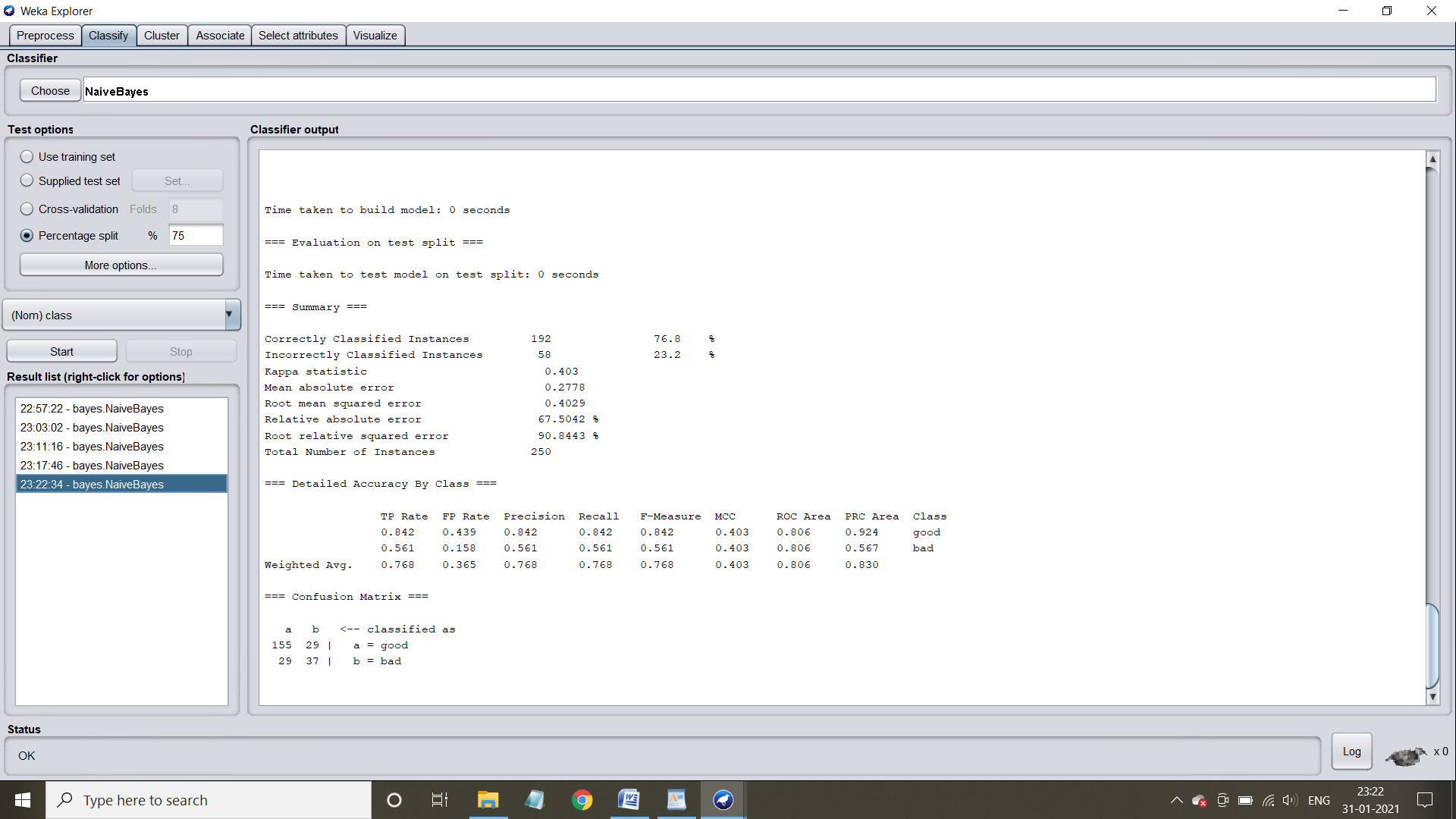
Step 2: Understand the characteristics of the model

Time taken to build the model = 0 seconds

Time taken to test the model on test split : 0 seconds

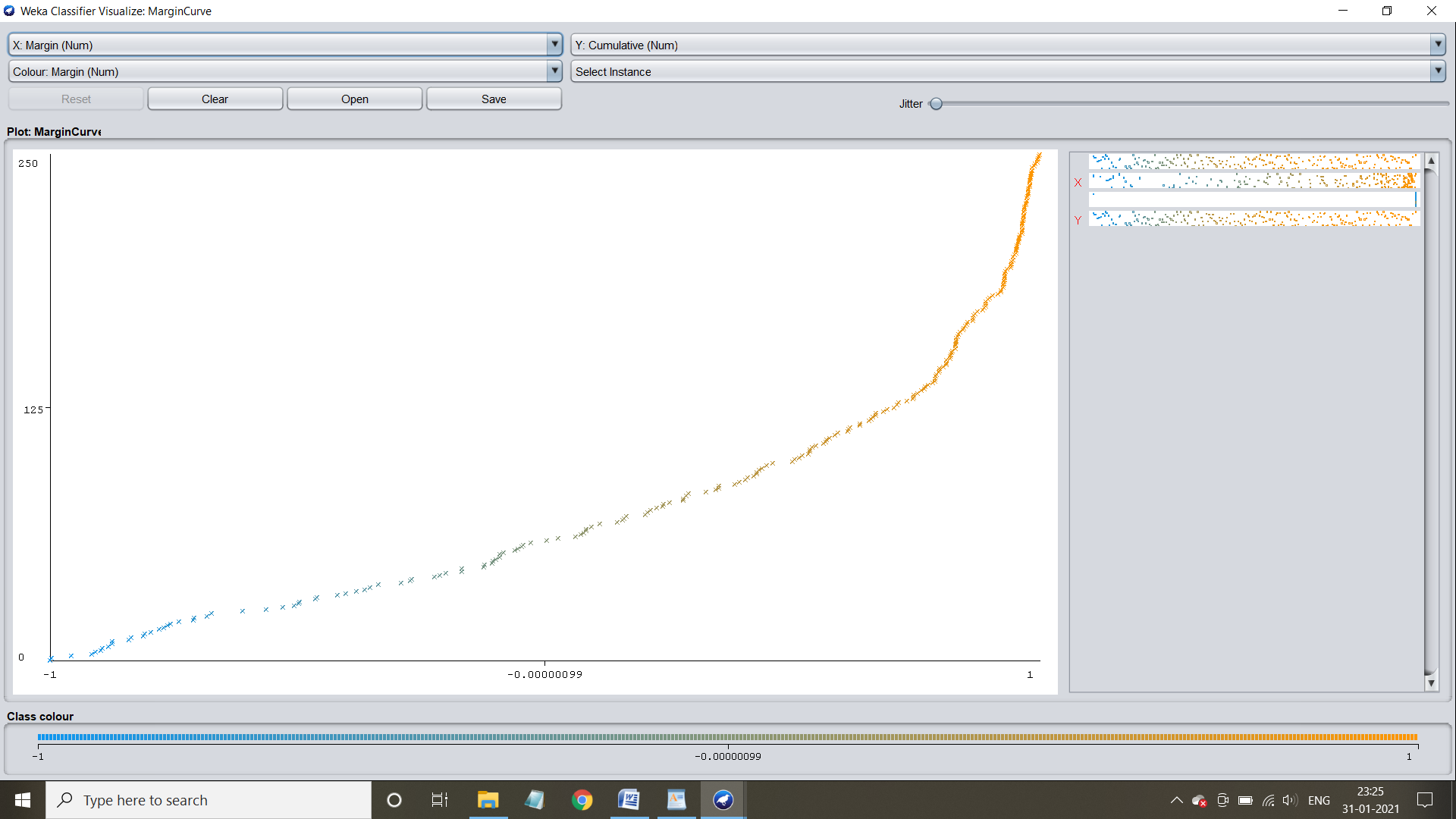


Confusion matrix and accuracy:

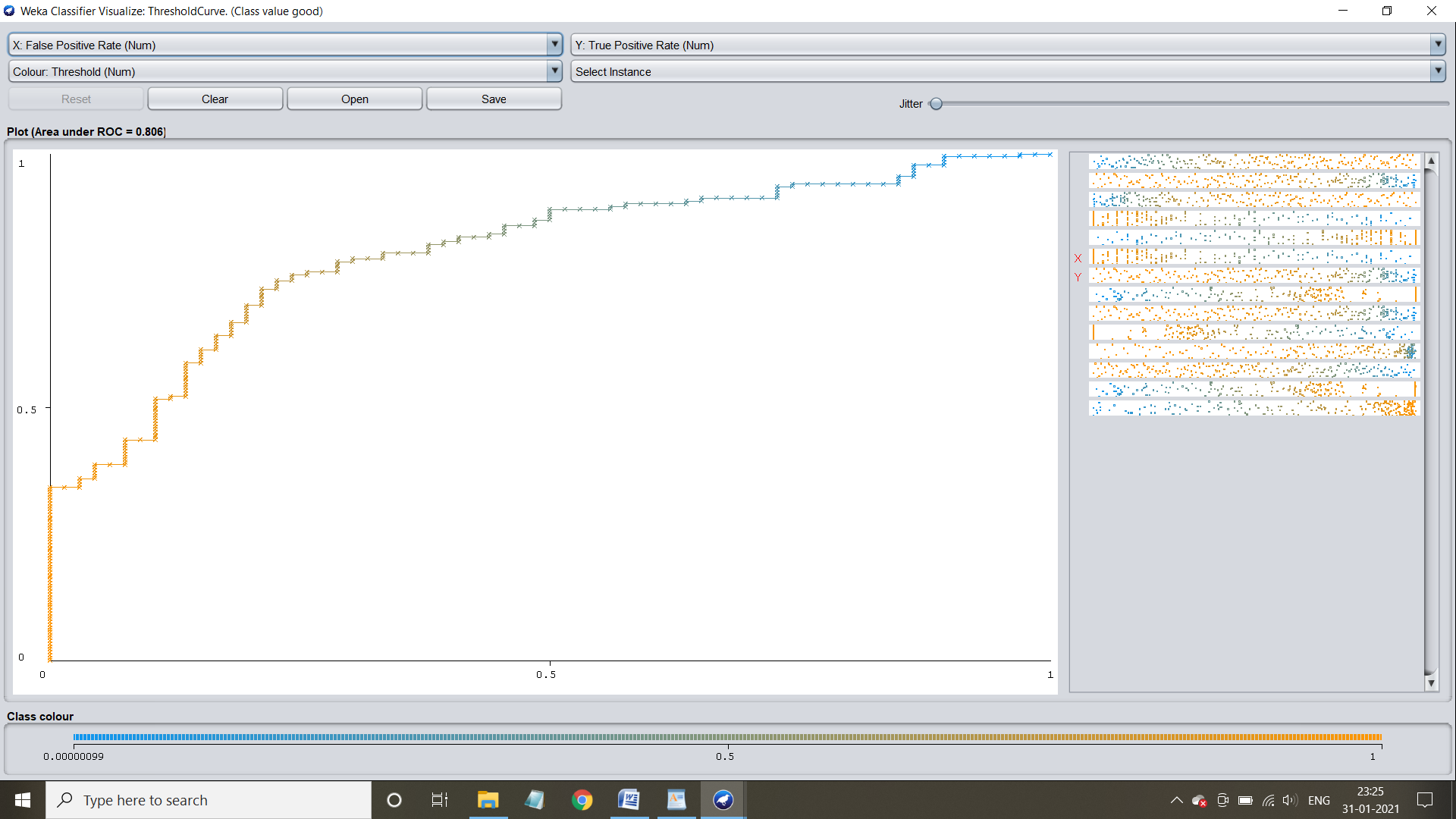


**Visualization of the model:**

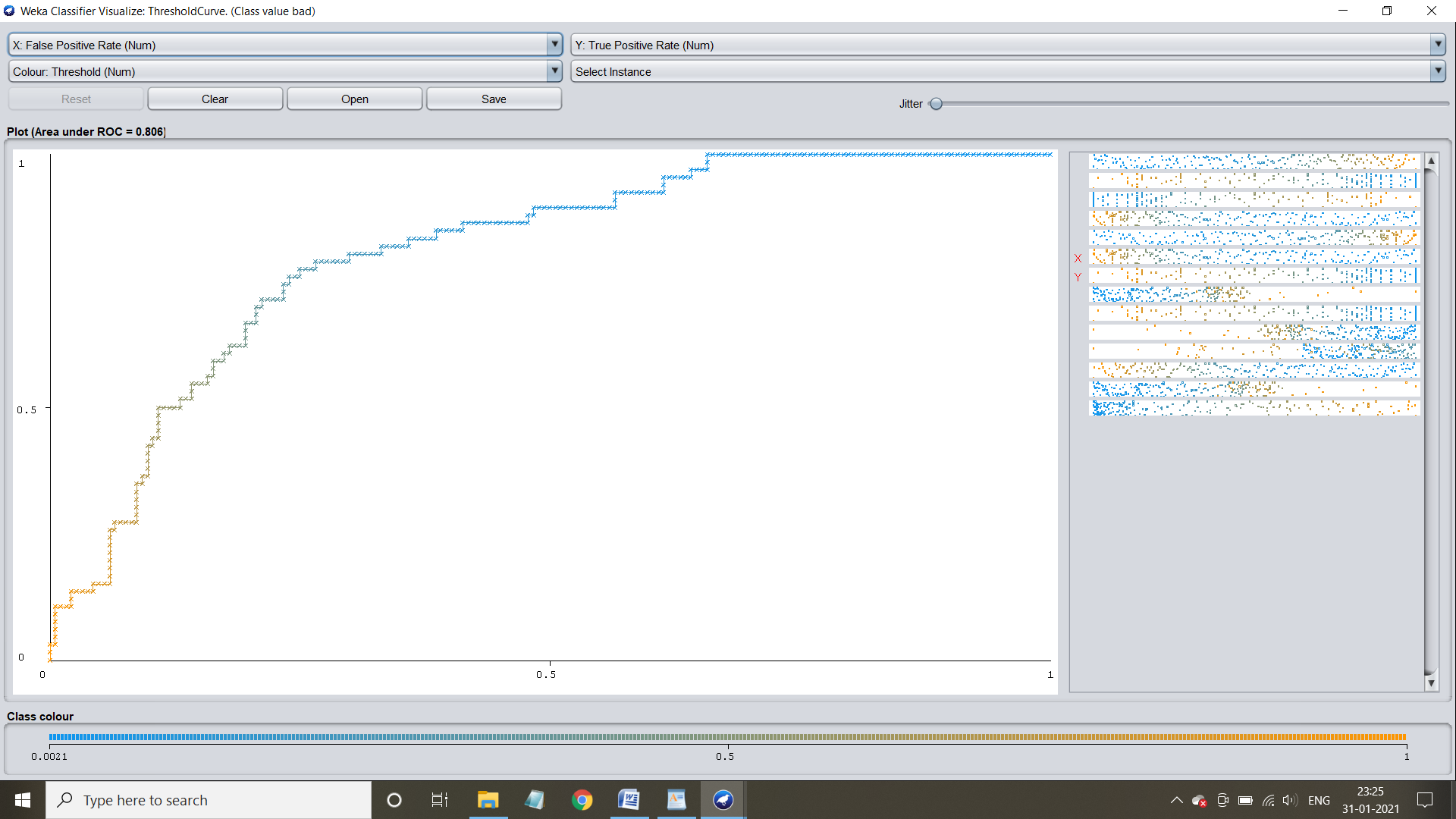
**Margin Curve:**



**Threshold curve for class :Good**

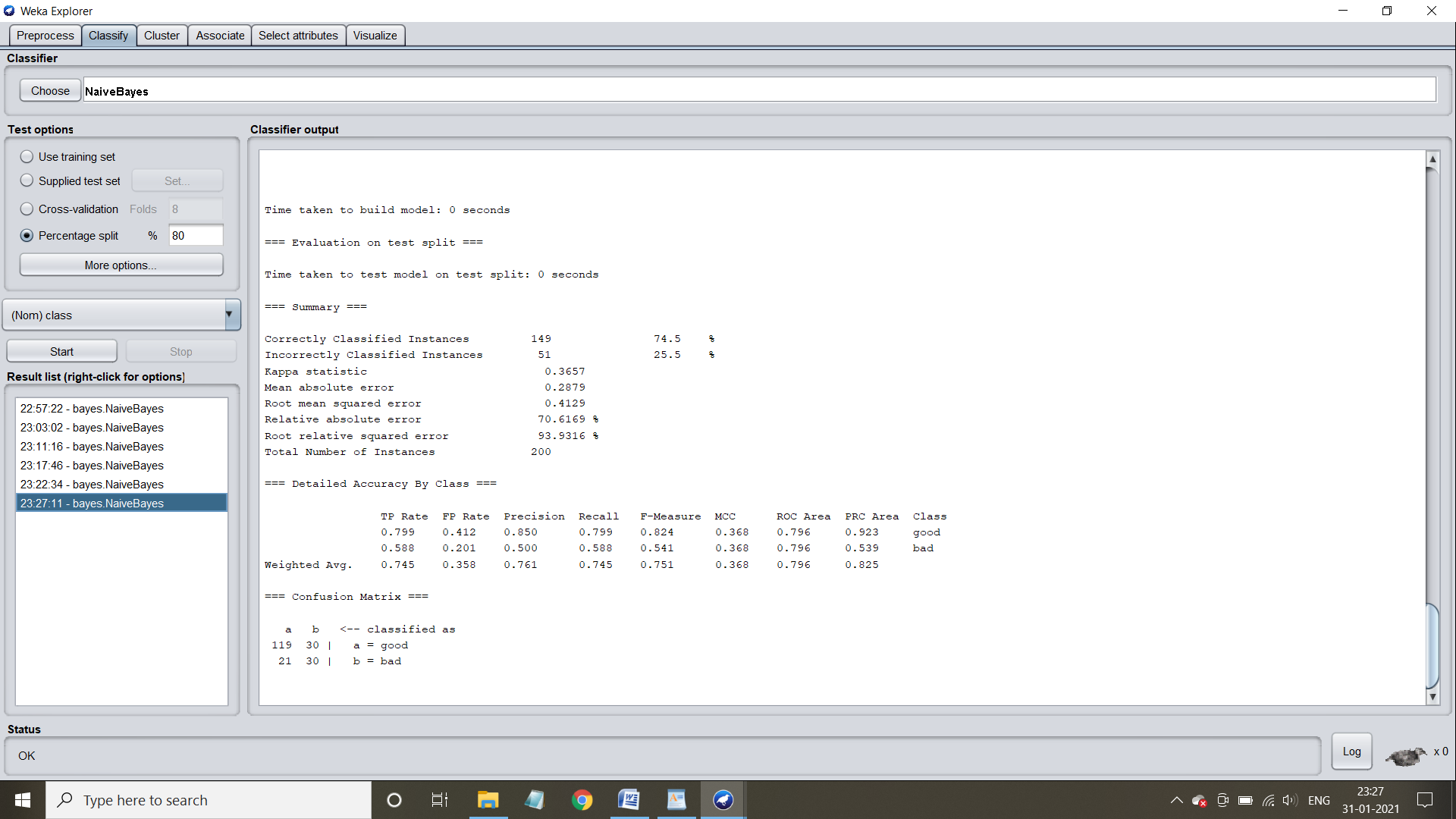


**Threshold curve for class :Bad**



**Case 3: Application when the percentage split is 80%**

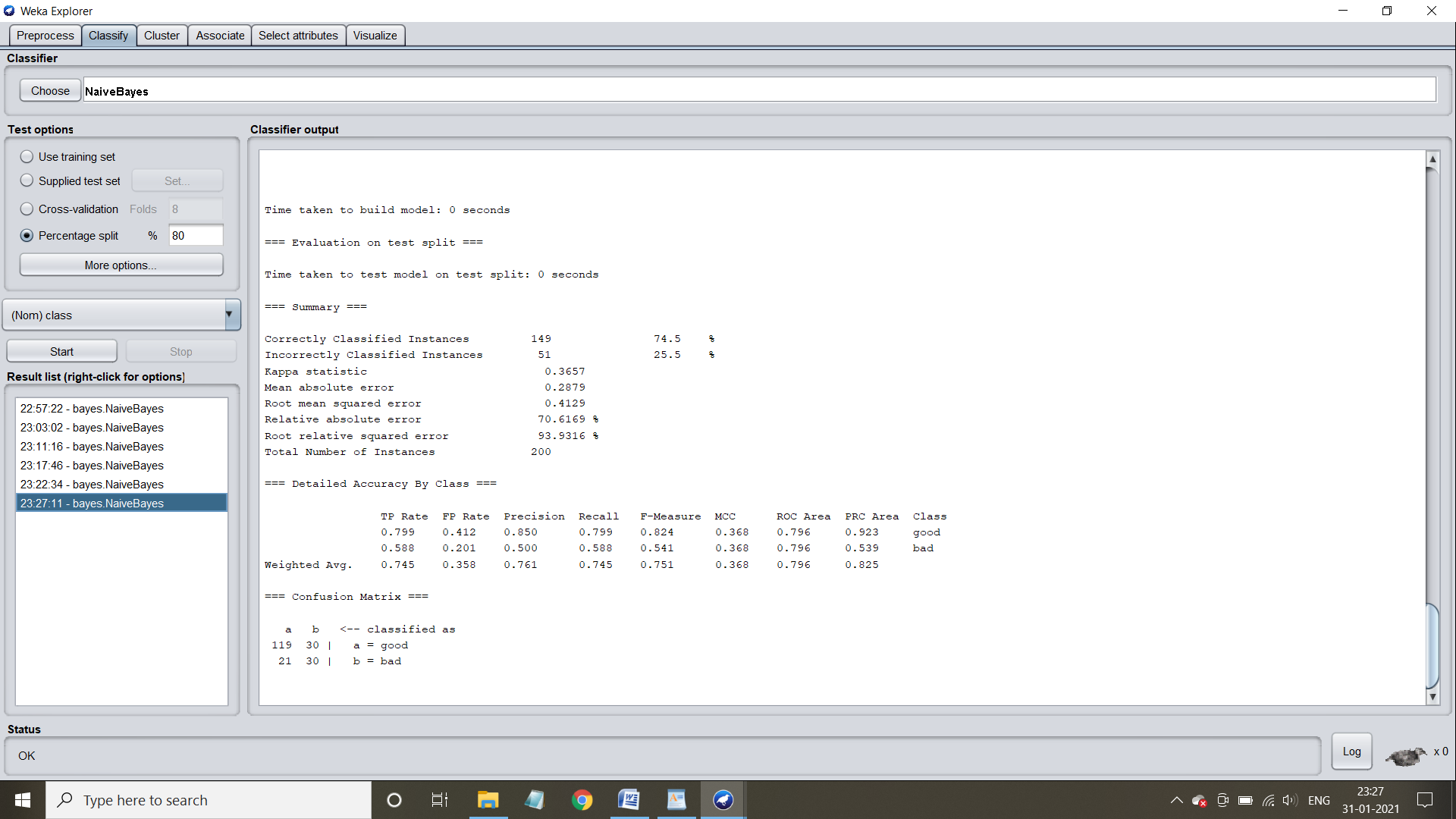
Step 1: Select the percentage split and specify it as 80% and click start button



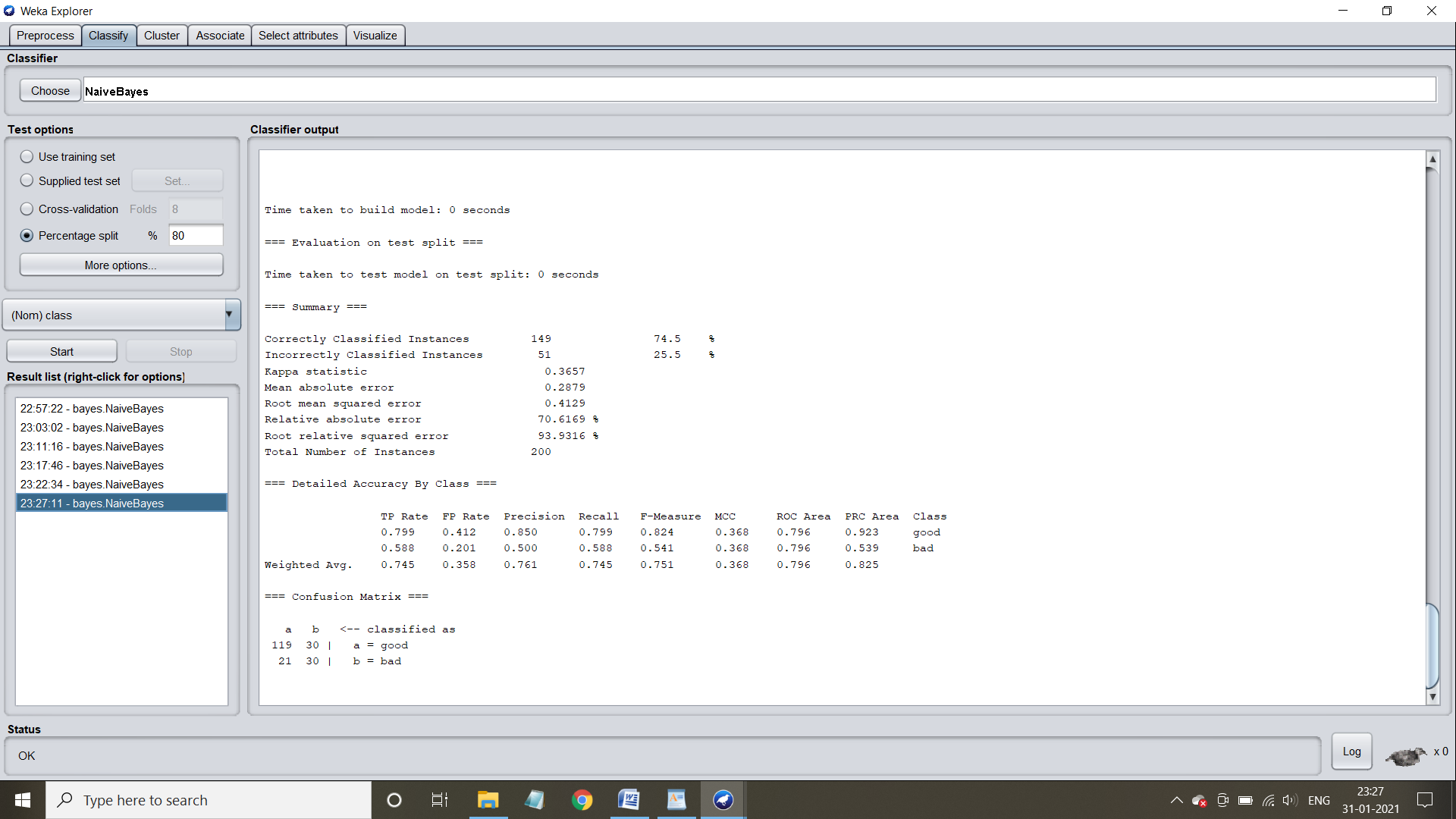
Step 2: Understand the characteristics of model

Time taken to build the model = 0 seconds

Time taken to test the model on test split = 0 seconds

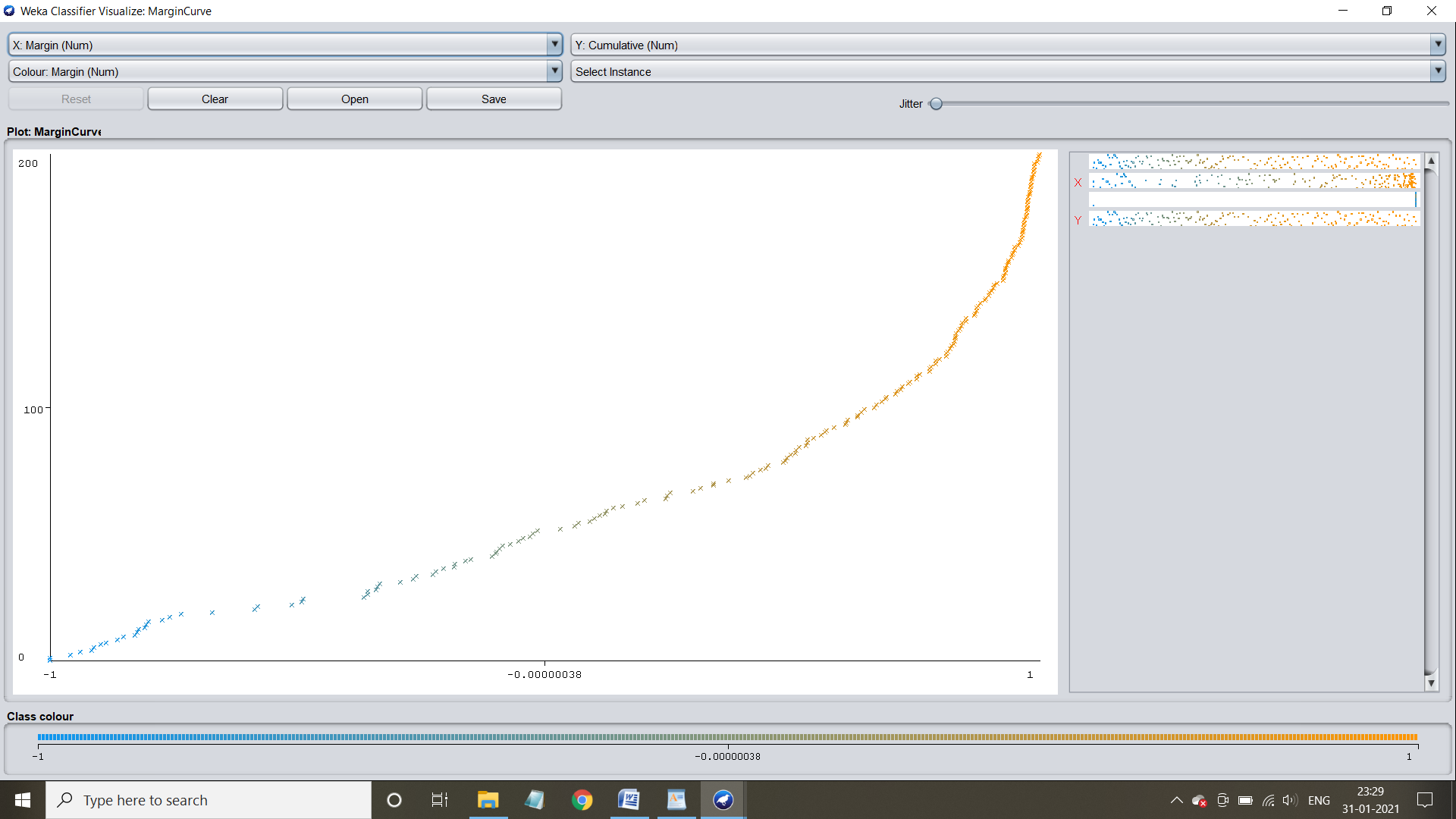


Confusion matrix and accuracy:

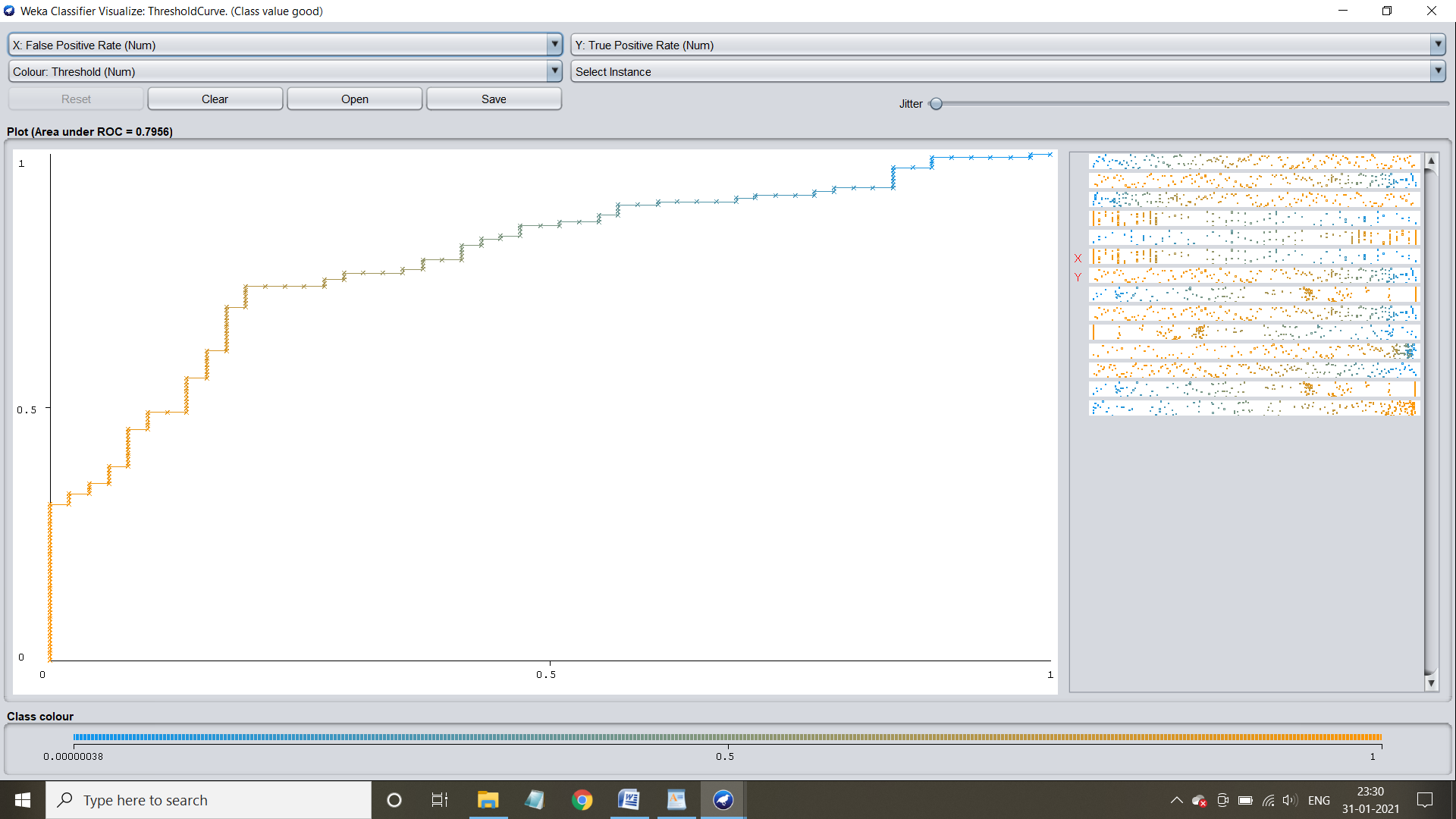


**Visualization of the model:**

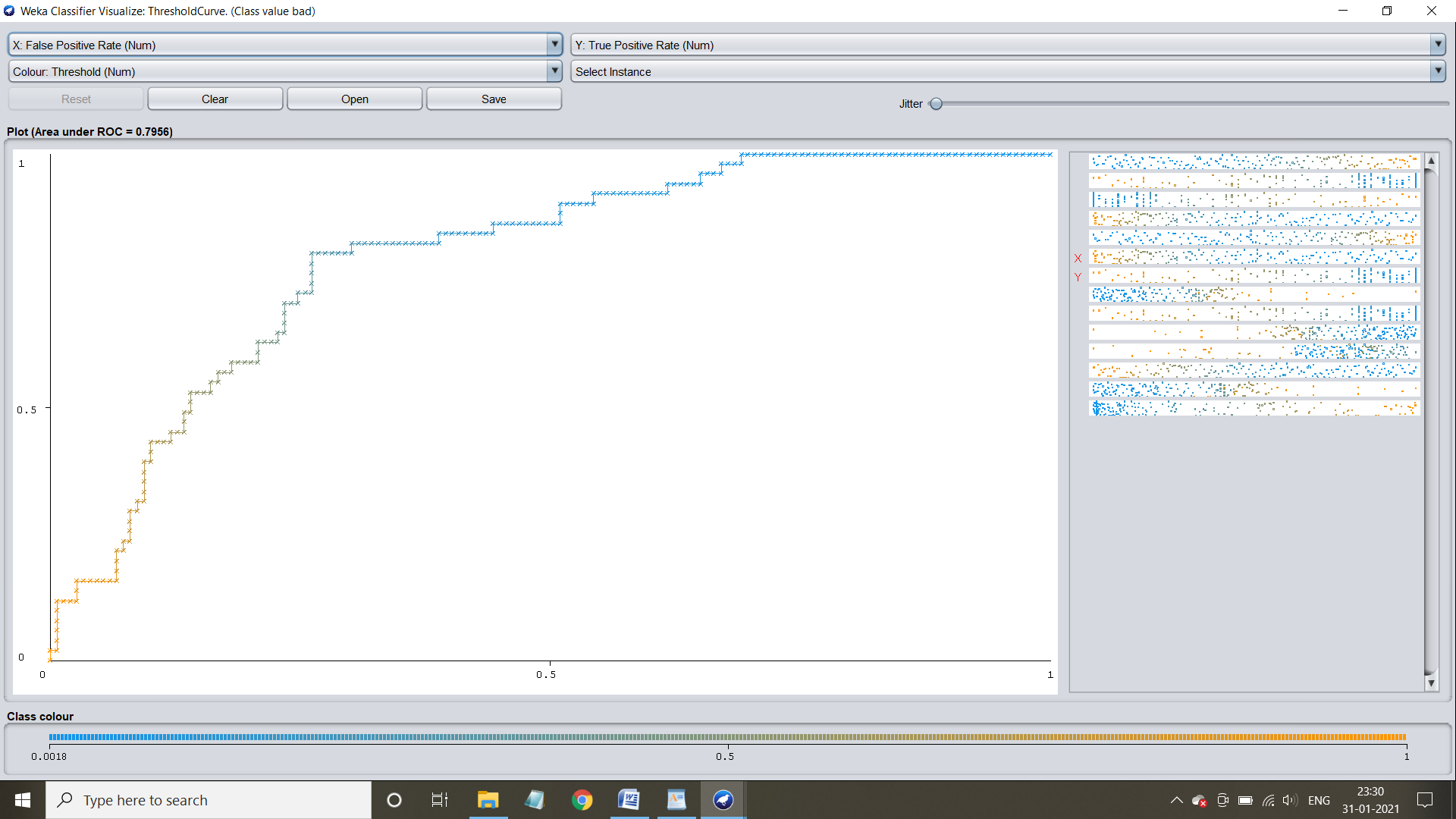
**Margin Curve:**

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**Threshold curve for class :Good**



**Threshold curve for class :Bad**

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