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Roll no.: 17

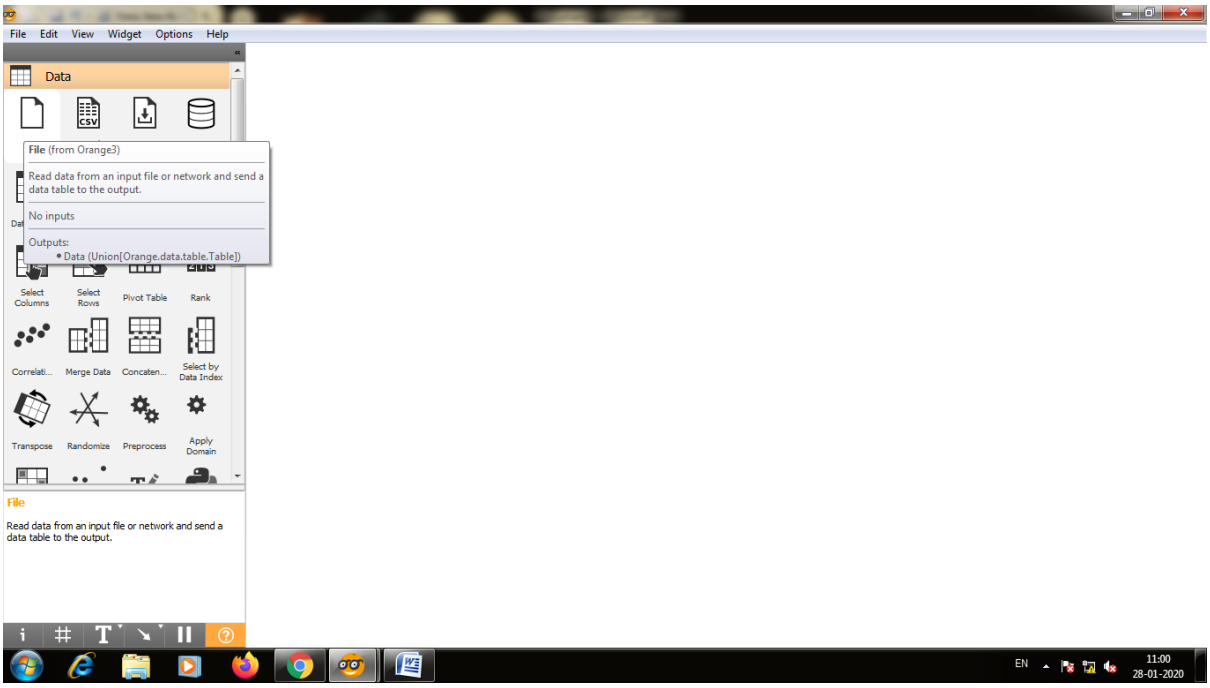
Class: MSc CS Part I

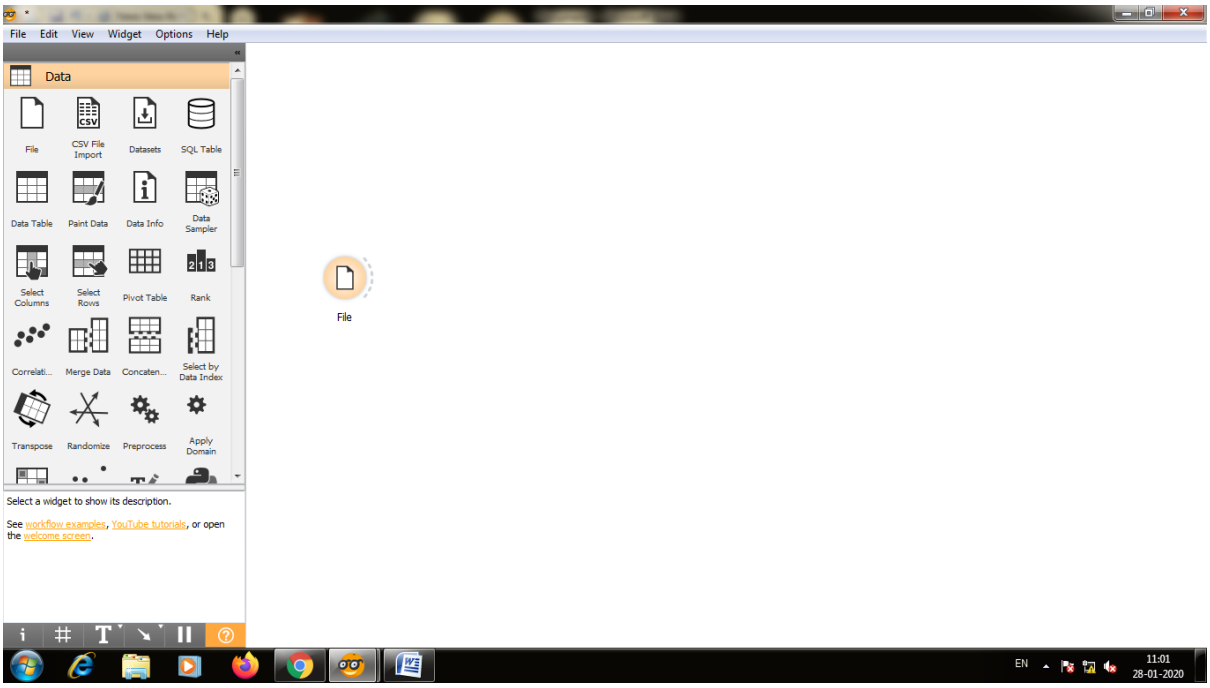
Subject:DWDM Mini Project

Academic Year: 2021-2022

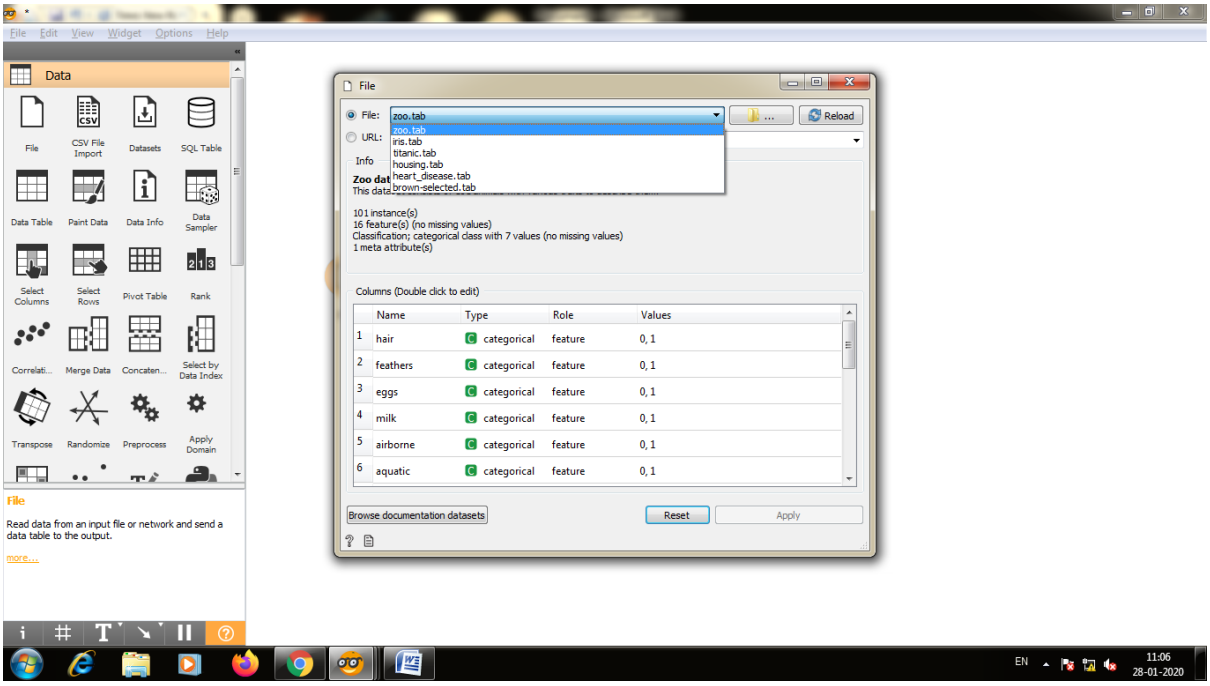
Aim: Classification using orange tool.

Step1:- We will be taking the available data files in order to predict the future things so open a new data file and drag the file just over it.

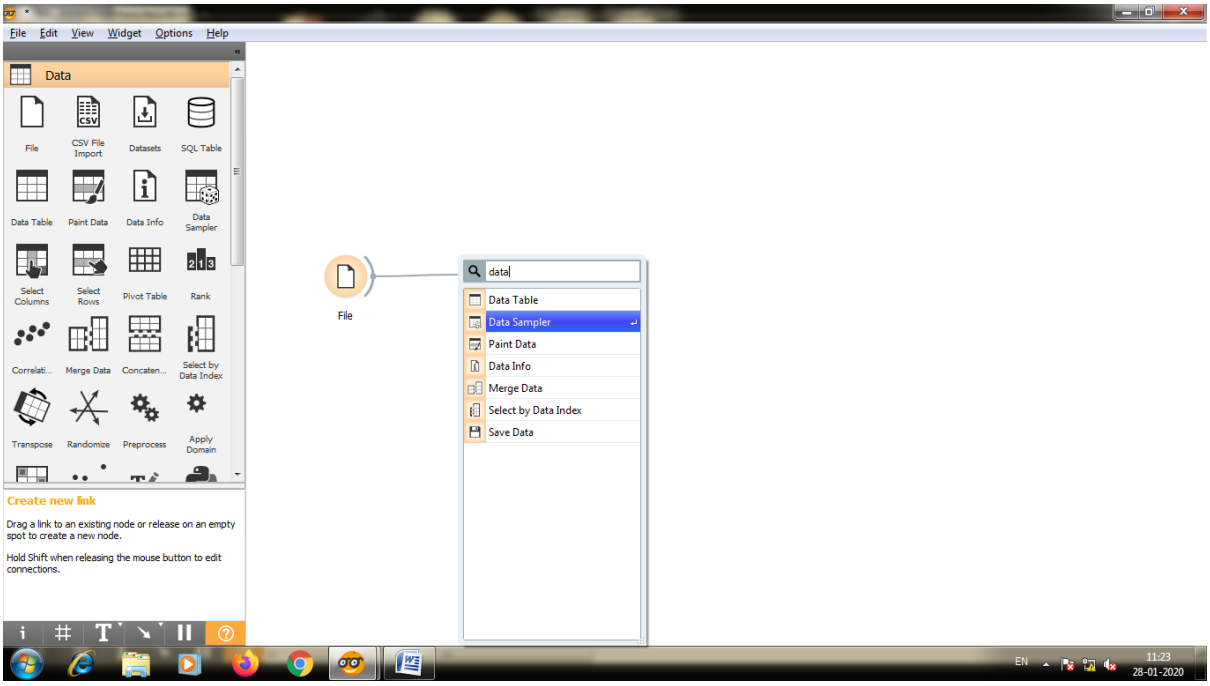




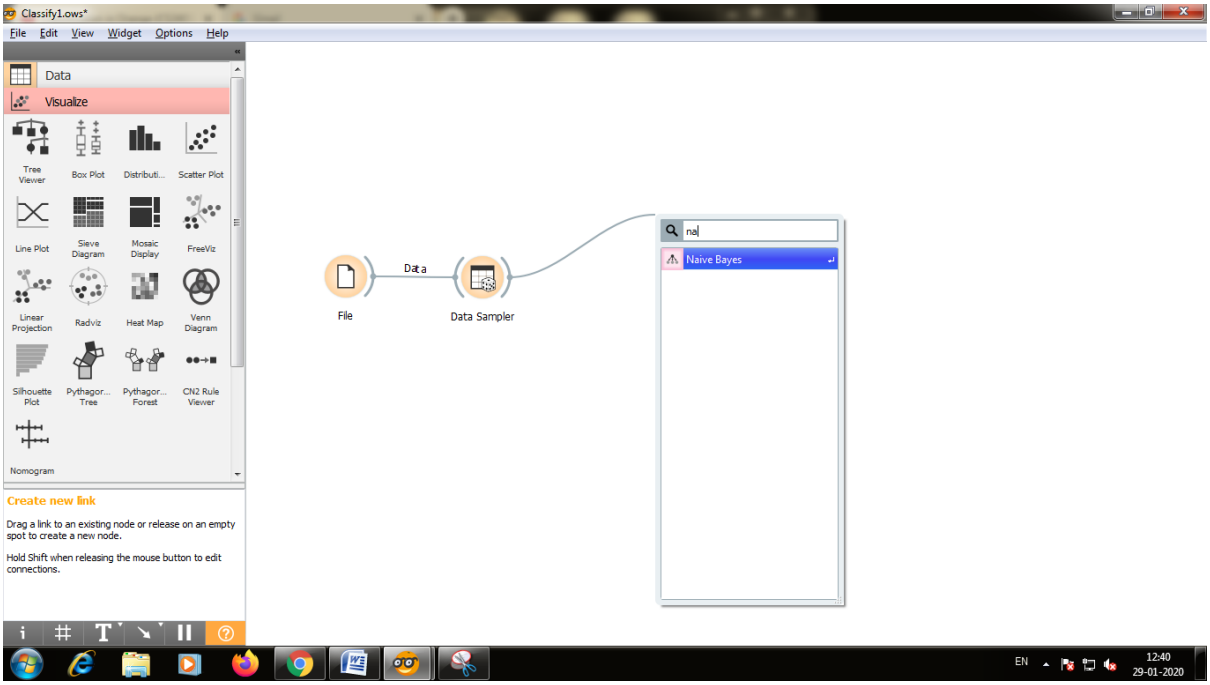
Step2:-Double click on the data file,from the dropdown list select the zoo.tab data file and close it.

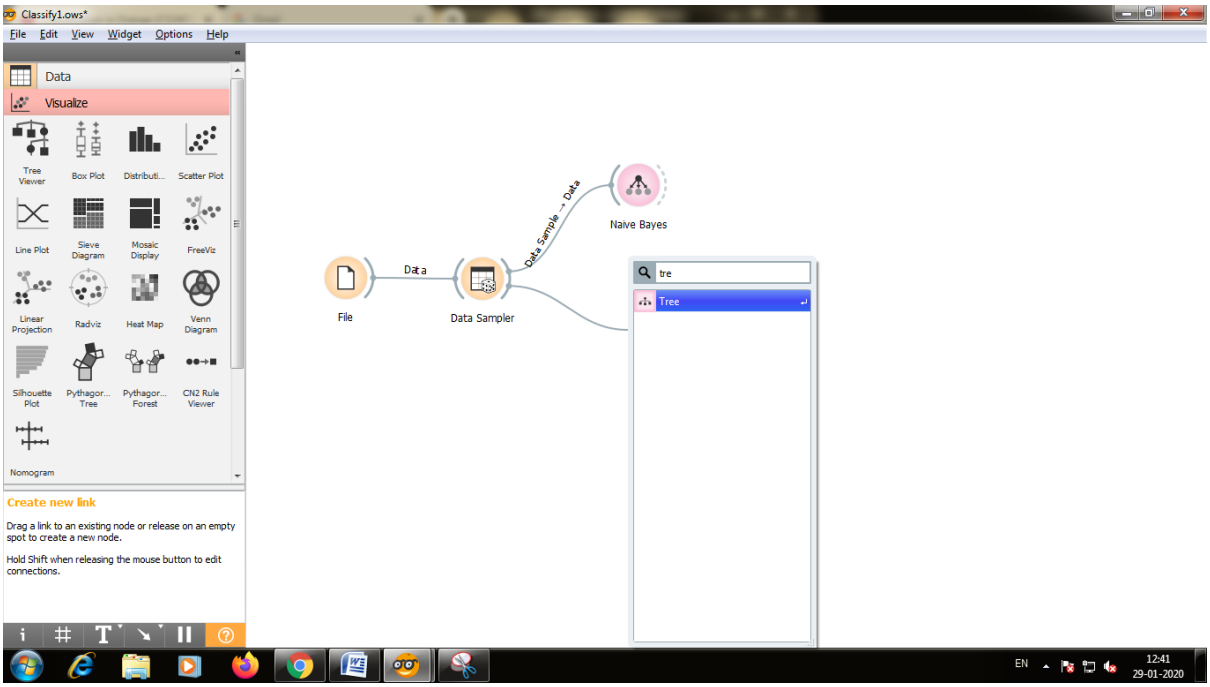


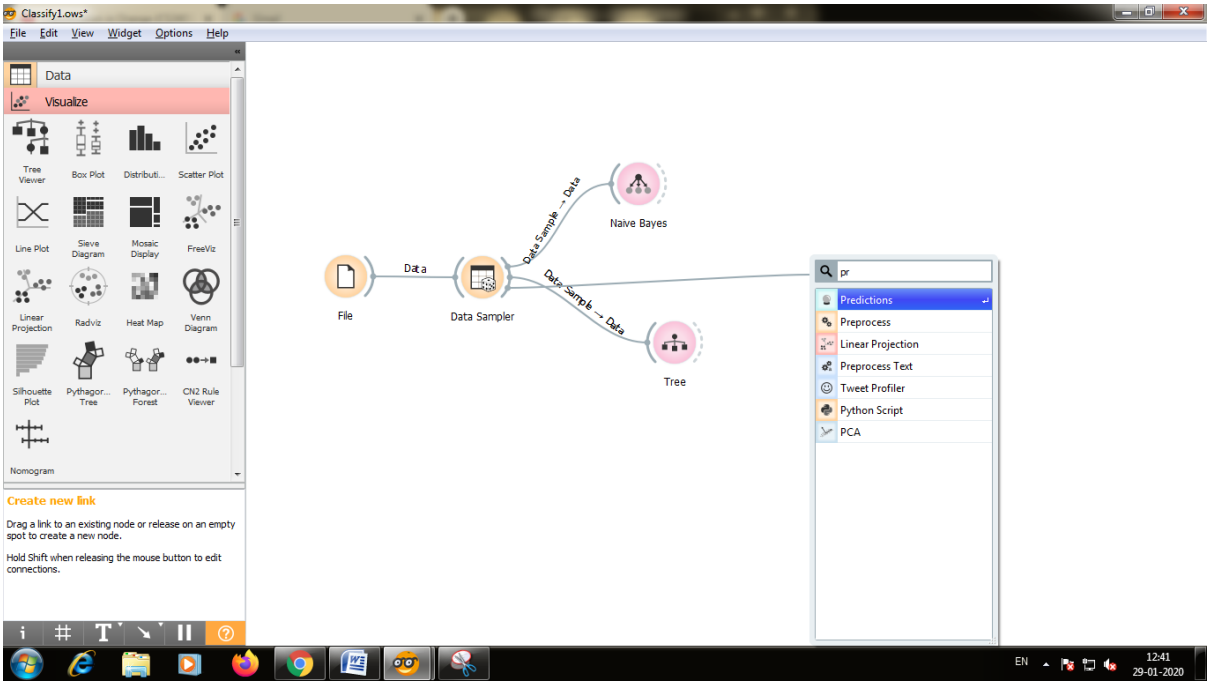
Step3:-Select the file and type data sampler.

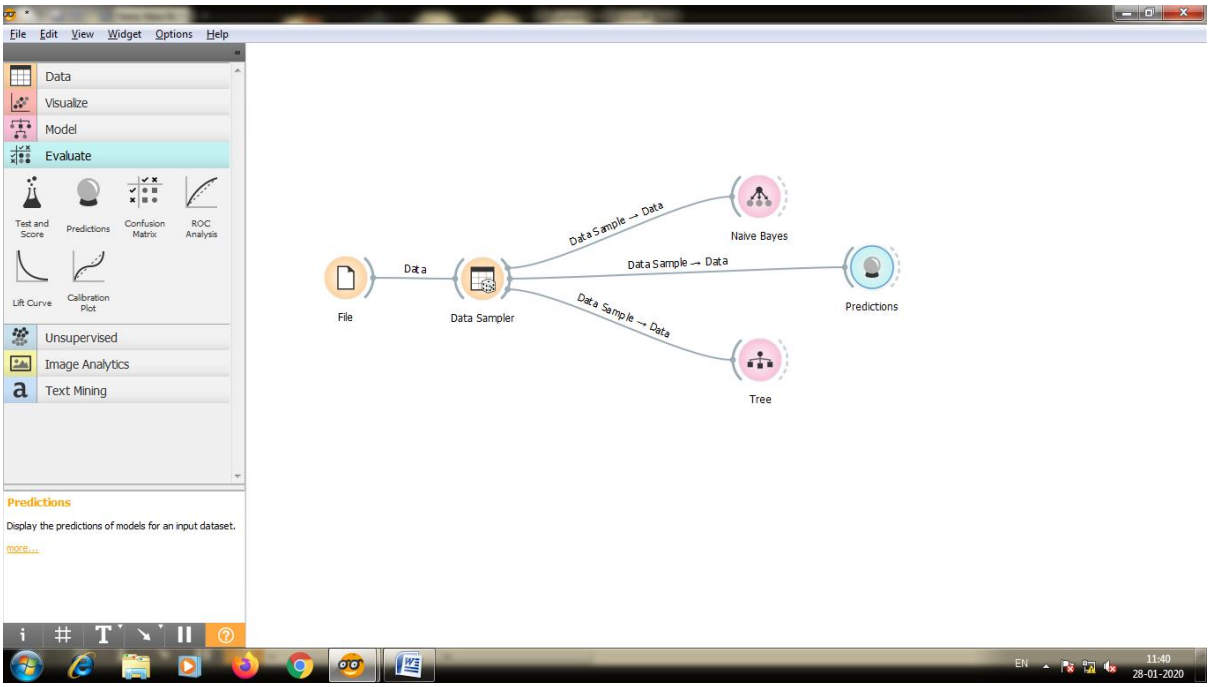


Step4:-Whenever we do prediction we will need to connect them with native bayes and classification tree to the prediction by dragging them across.

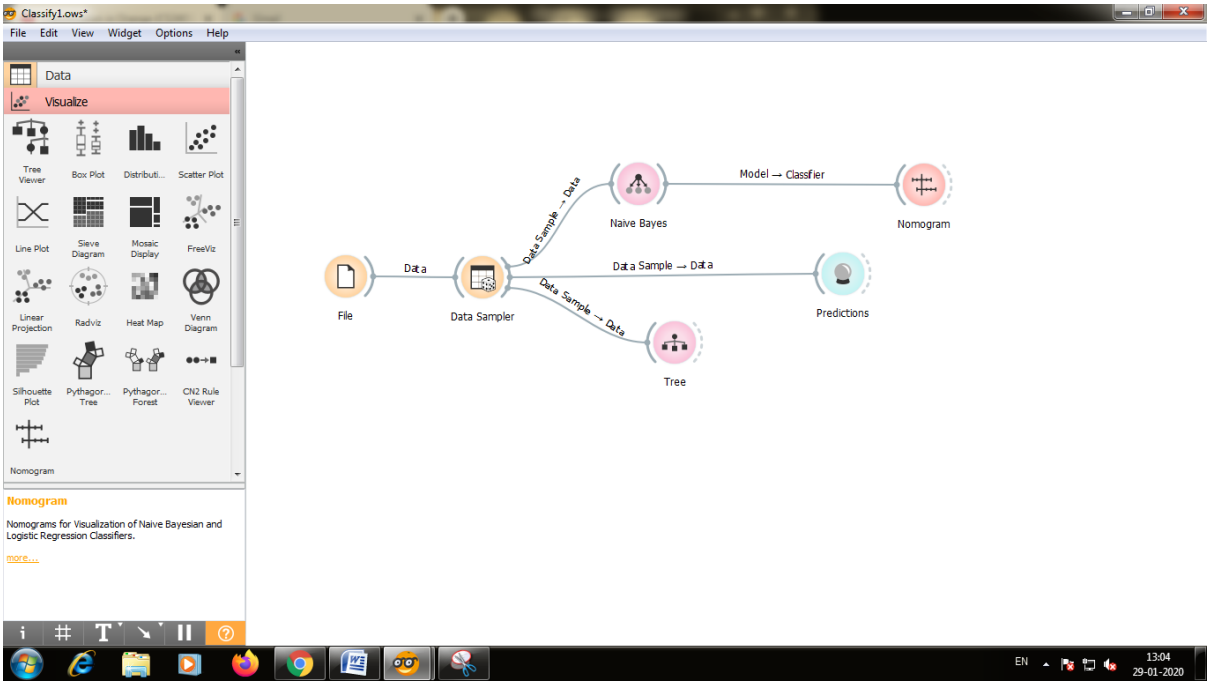

Classify1.ows*
File Edit View Widget Options Help
Data
Visualize
Tree Viewer
Box Plot
Distributi...
Scatter Plot
Line Plot
Sieve Diagram
Mosaic Display
FreeViz
Linear Projection
Radviz
Heat Map
Venn Diagram
Silhouette Plot
Pythagor... Tree
Pythagor... Forest
CN2 Rule Viewer
Nomogram
Create new link
Drag a link to an existing node or release on an empty spot to create a new node.
Hold Shift when releasing the mouse button to edit connections.
Data
File
Data Sampler
nai
Naive Bayes
EN
12:40
29-01-2020

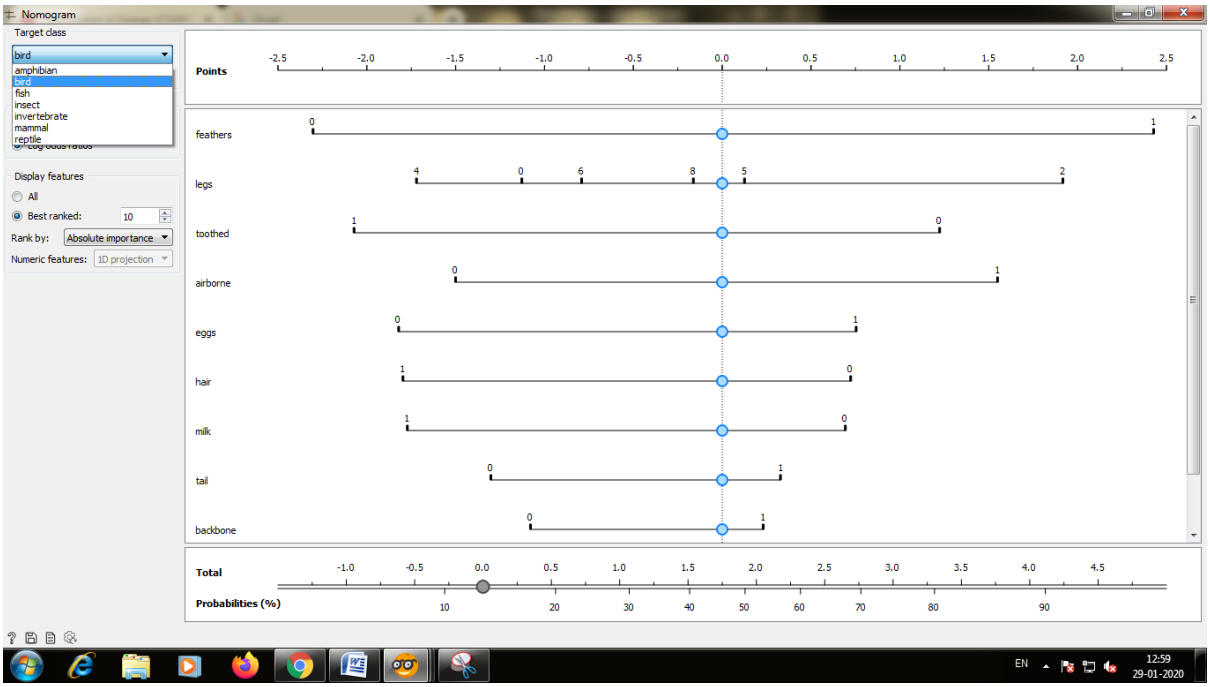

Classify1.ows*
File Edit View Widget Options Help
Data
Visualize
Tree Viewer
Box Plot
Distributi...
Scatter Plot
Line Plot
Sieve Diagram
Mosaic Display
FreeViz
Linear Projection
Radviz
Heat Map
Venn Diagram
Silhouette Plot
Pythagor... Tree
Pythagor... Forest
CN2 Rule Viewer
Nomogram
Create new link
Drag a link to an existing node or release on an empty spot to create a new node.
Hold Shift when releasing the mouse button to edit connections.
Data
File
Data Sampler
Data Sample → Data
Naive Bayes
tre
Tree
EN
12:41
29-01-2020

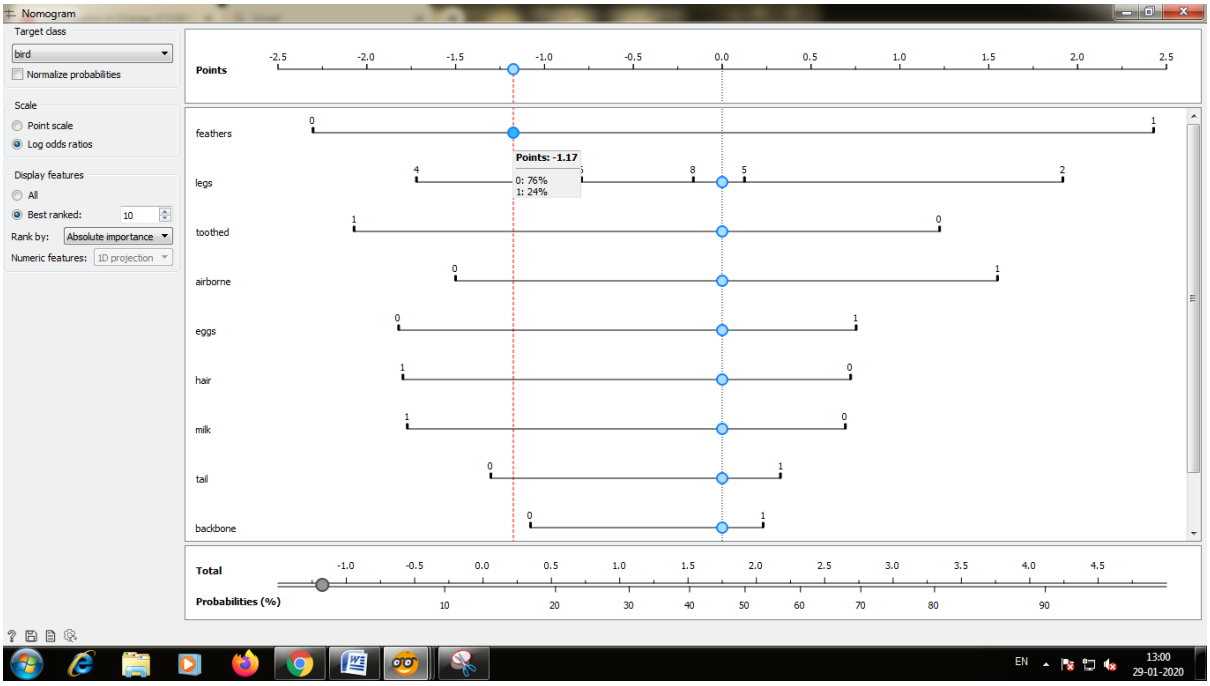




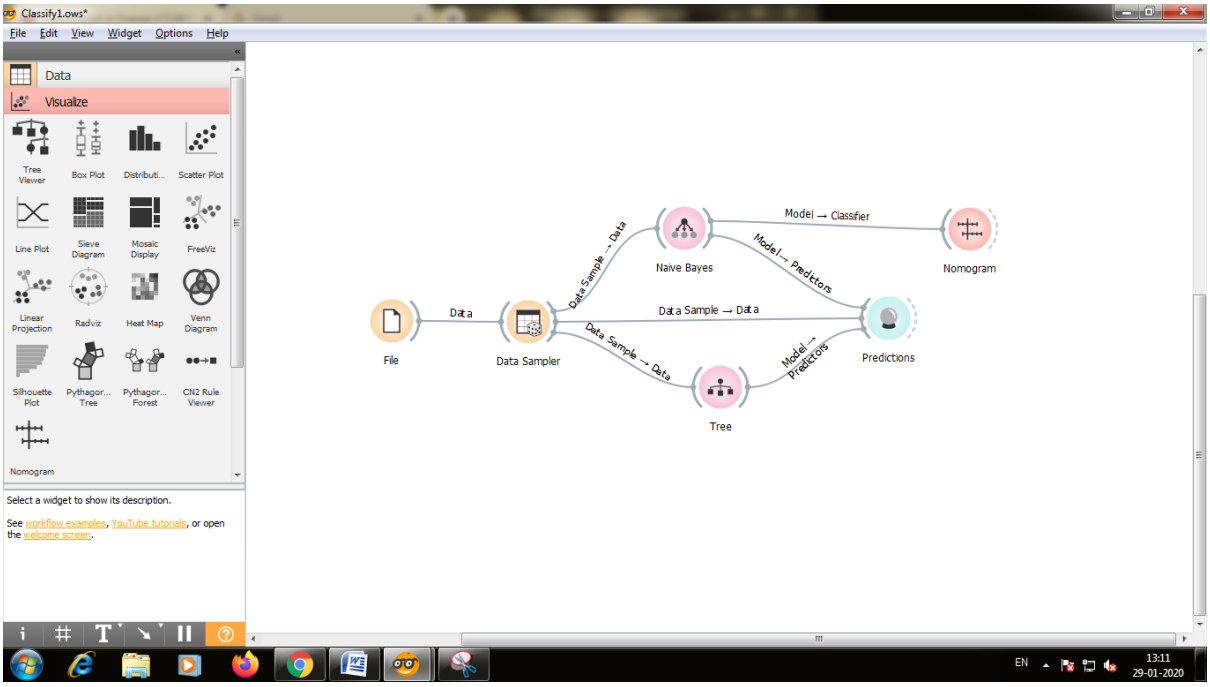
Step5:-The model is also able to show how you can predict the type class of the various attributes so you can use the nomogram for that double click on nomogram and you see the type of target class list so let's see if the you want to see if the data input you can drag these points across by sliding across the data one means yes and zero means no


Classify1.ows*
File Edit View Widget Options Help
Data
Visualize
Tree Viewer
Box Plot
Distributi...
Scatter Plot
Line Plot
Sieve Diagram
Mosaic Display
FreeViz
Linear Projection
Radviz
Heat Map
Venn Diagram
Silhouette Plot
Pythagor... Tree
Pythagor... Forest
CN2 Rule Viewer
Nomogram
Nomogram
Nomograms for Visualization of Naive Bayesian and Logistic Regression Classifiers.
more...
File
Data
Data Sampler
Data Sample → Data
Naive Bayes
Model → Classifier
Nomogram
Data Sample → Data
Predictions
Data Sample → Data
Tree
EN
13:04
29-01-2020

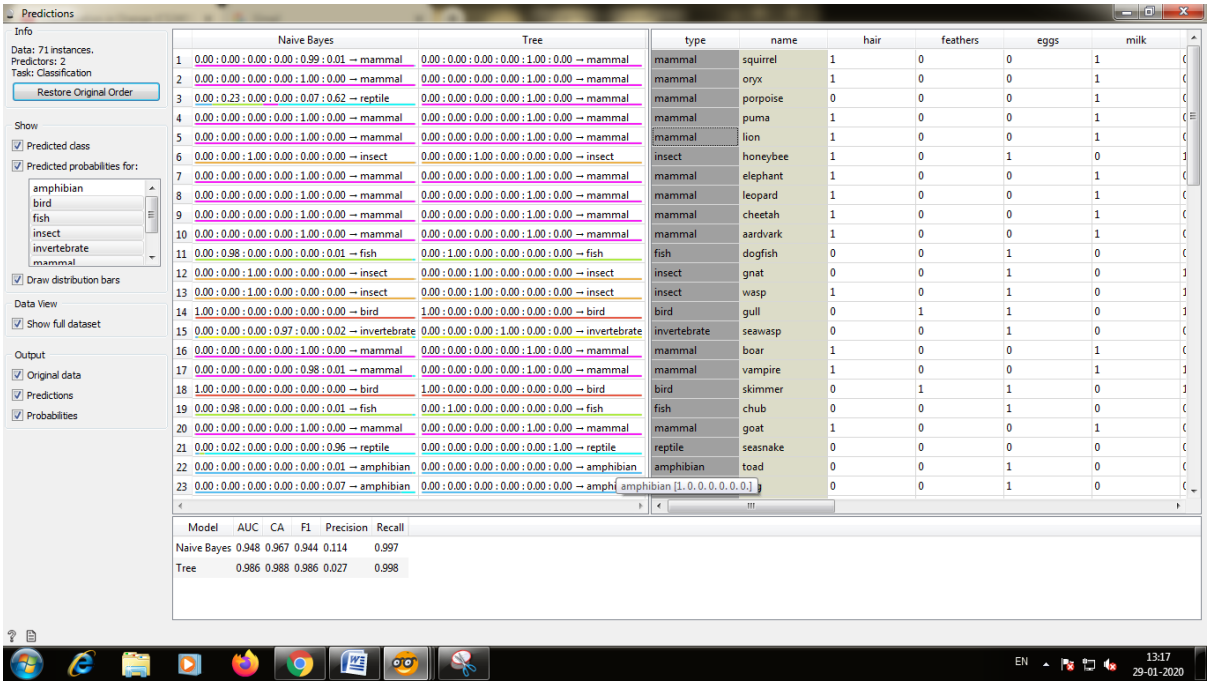

Nomogram
Target class
bird
amphibian
bird
fish
insect
invertebrate
mammal
reptile
Display features
All
Best ranked: 10
Rank by: Absolute importance
Numeric features: 1D projection
Points
-2.5 -2.0 -1.5 -1.0 -0.5 0.0 0.5 1.0 1.5 2.0 2.5
feathers
legs
toothed
airborne
eggs
hair
milk
tail
backbone
Total
-1.0 -0.5 0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5
Probabilities (%)
10 20 30 40 50 60 70 80 90
EN
12:59
29-01-2020



Step6:-Connect the Native Bayes and Classification Tree to Prediction

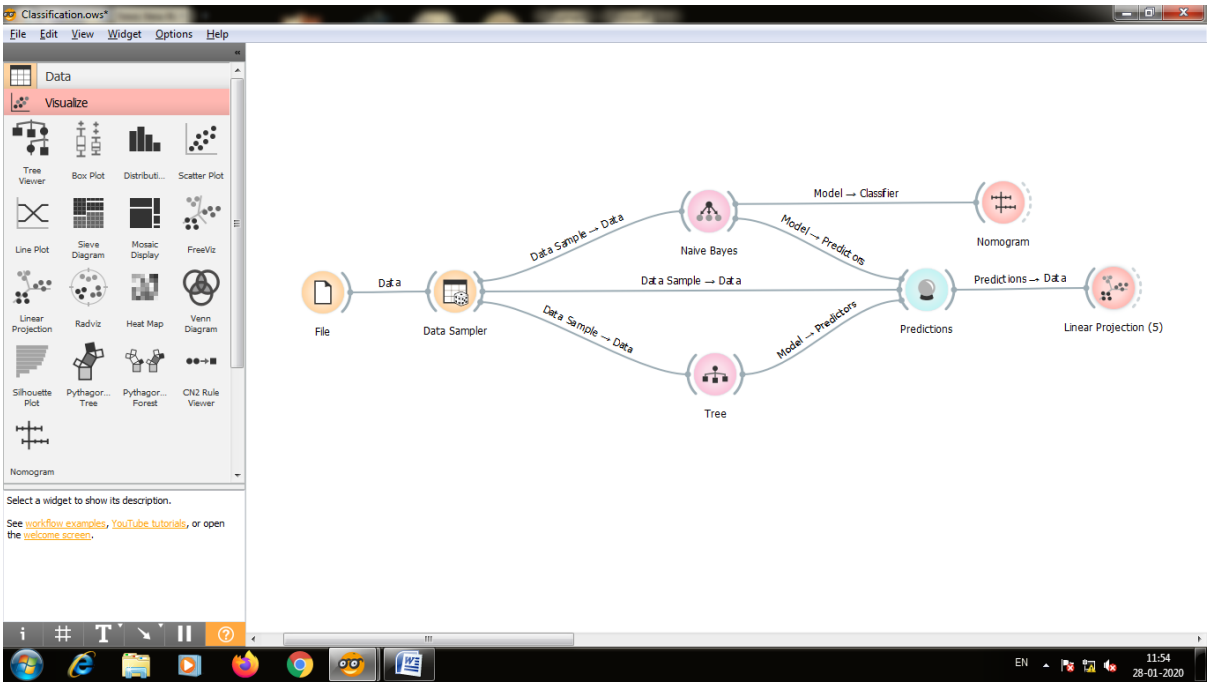


Step7:-Double click on the prediction and you will the data attributes by seeing this input from hair feathers eggs milk and so on.

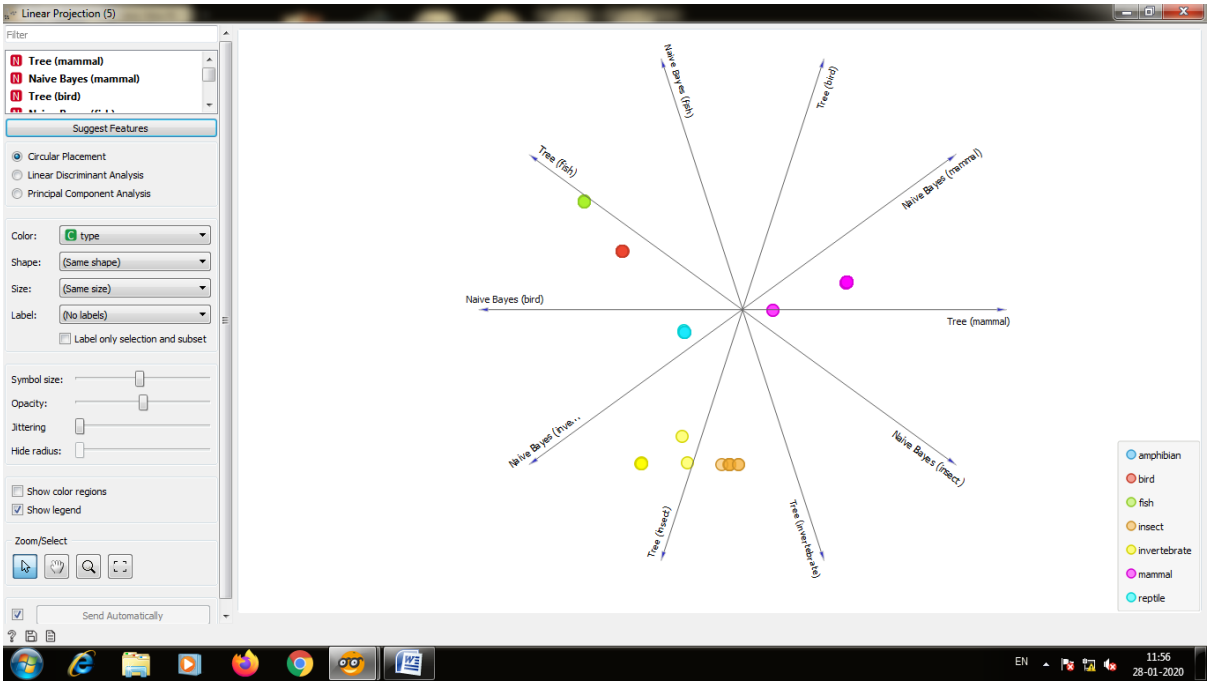


Step8:-There are different ways to visualize the data on the left side of the screen you can scroll down and you will see the visualize step so you click on the tab and you will see several regions that you can use to visualize the data like scatter plot,linear projection etc.

For this example we are going to use linear projection.



Step9:-Double click on the linear projection and you can the different classes of zoo animal.


Linear Projection (5)
Filter
Tree (mammal)
Naive Bayes (mammal)
Tree (bird)
Suggest Features
Circular Placement
Linear Discriminant Analysis
Principal Component Analysis
Color: type
Shape: (Same shape)
Size: (Same size)
Label: (No labels)
Label only selection and subset
Symbol size:
Opacity:
Jittering
Hide radius:
Show color regions
Show legend
Zoom/Select
Send Automatically
Naive Bayes (fish)
Tree (bird)
Tree (fish)
Naive Bayes (mammal)
Naive Bayes (bird)
Tree (mammal)
Naive Bayes (inve...
Naive Bayes (insect)
Tree (insect)
Tree (invertebrate)
amphibian
bird
fish
insect
invertebrate
mammal
reptile
EN
11:56
28-01-2020