

Name: Anurag Rai

Roll no:11

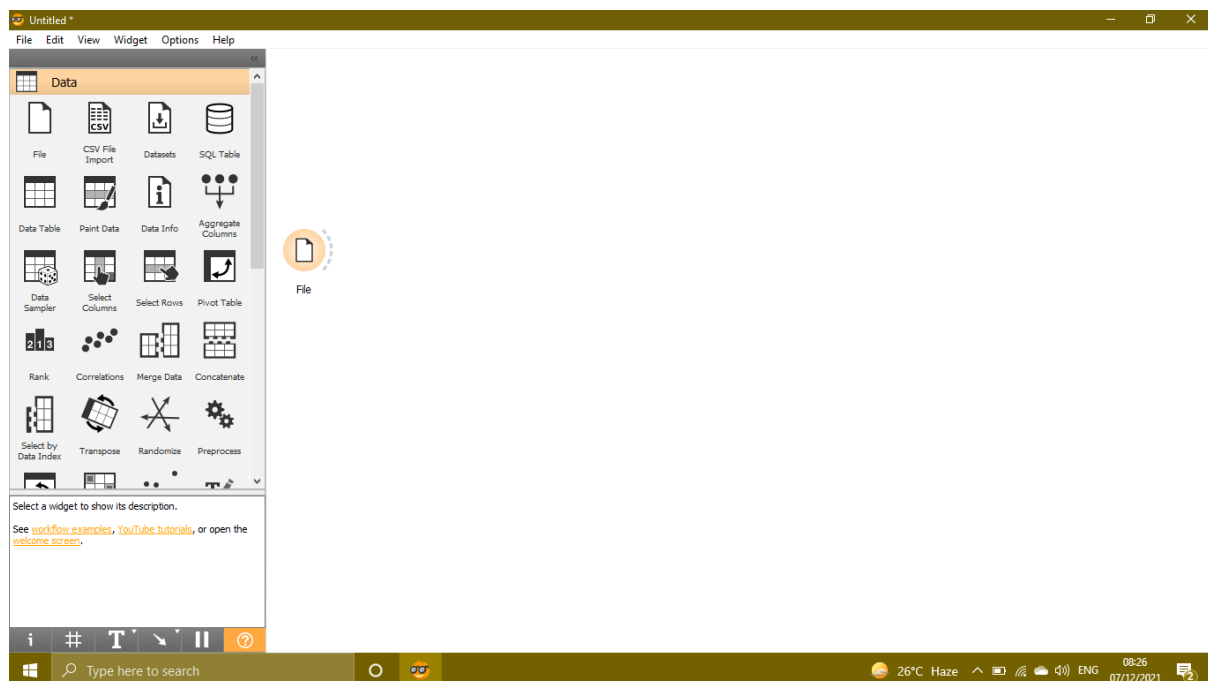
Class: MSc CS Part I

Subject: DWDM

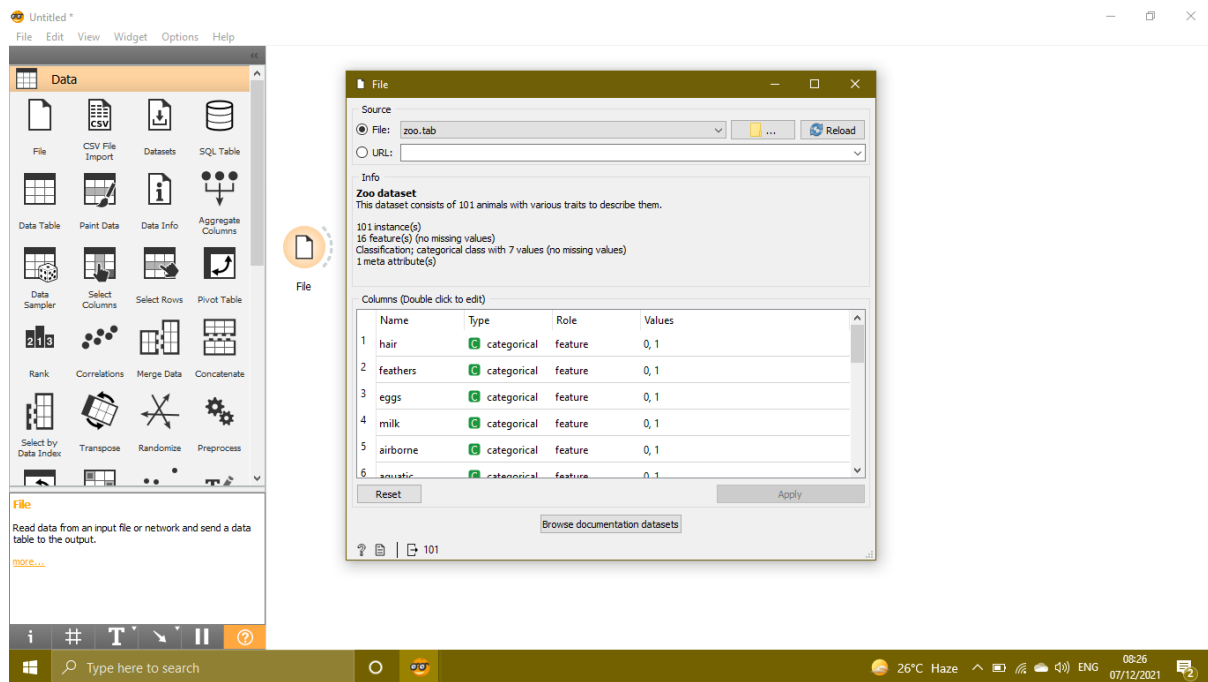
DMDW Mini Project

Aim: Classification using orange tool.

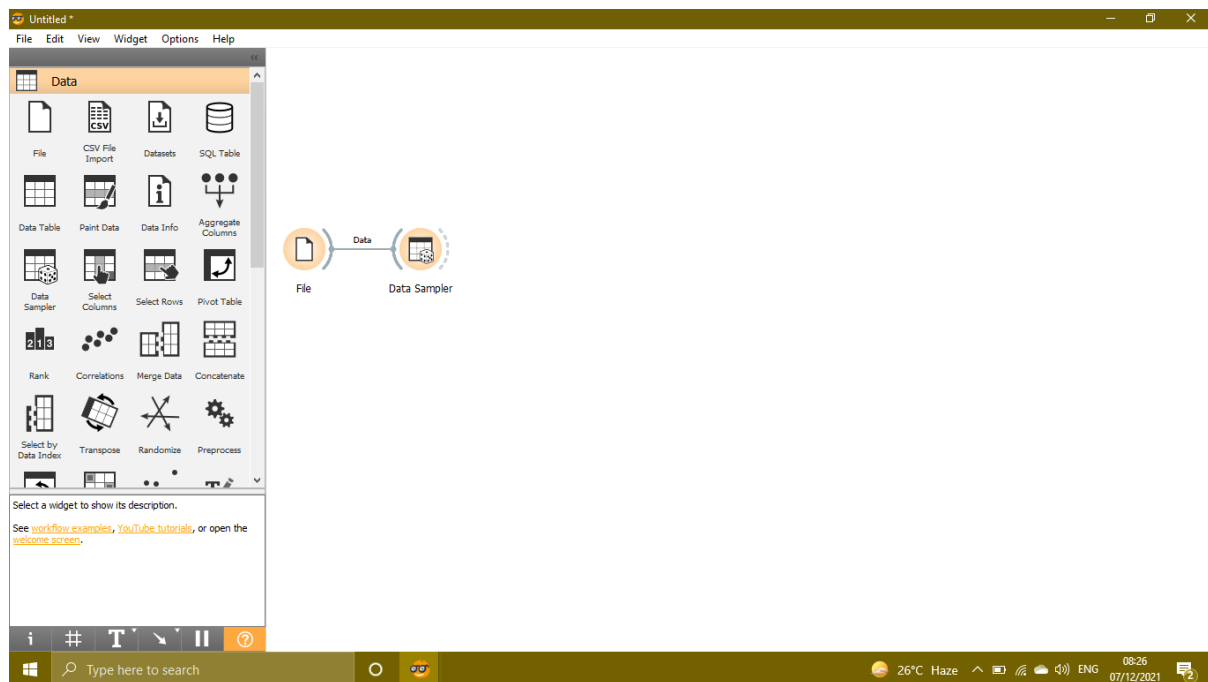
Step1:- We will be taking the available data files in order to predict the future things so open a new data file and drag the file just over it.



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.

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File Edit View Widget Options Help

Data

- File
- CSV File Import
- Datasets
- SQL Table
- Data Table
- Paint Data
- Data Info
- Aggregate Columns
- Data Sampler
- Select Columns
- Select Rows
- Pivot Table
- Rank
- Correlations
- Merge Data
- Concatenate
- Select by Data Index
- Transpose
- Randomize
- Preprocess

Data Sampler
Randomly draw a subset of data points from the input dataset.
[more...](#)

```

graph LR
    File[File] -- Data --> DataSampler[Data Sampler]
    DataSampler -- "Data Sample -> Data" --> NaiveBayes[Naive Bayes]
  
```

Windows taskbar: 26°C Haze, 08:27, 07/12/2021

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File Edit View Widget Options Help

Data

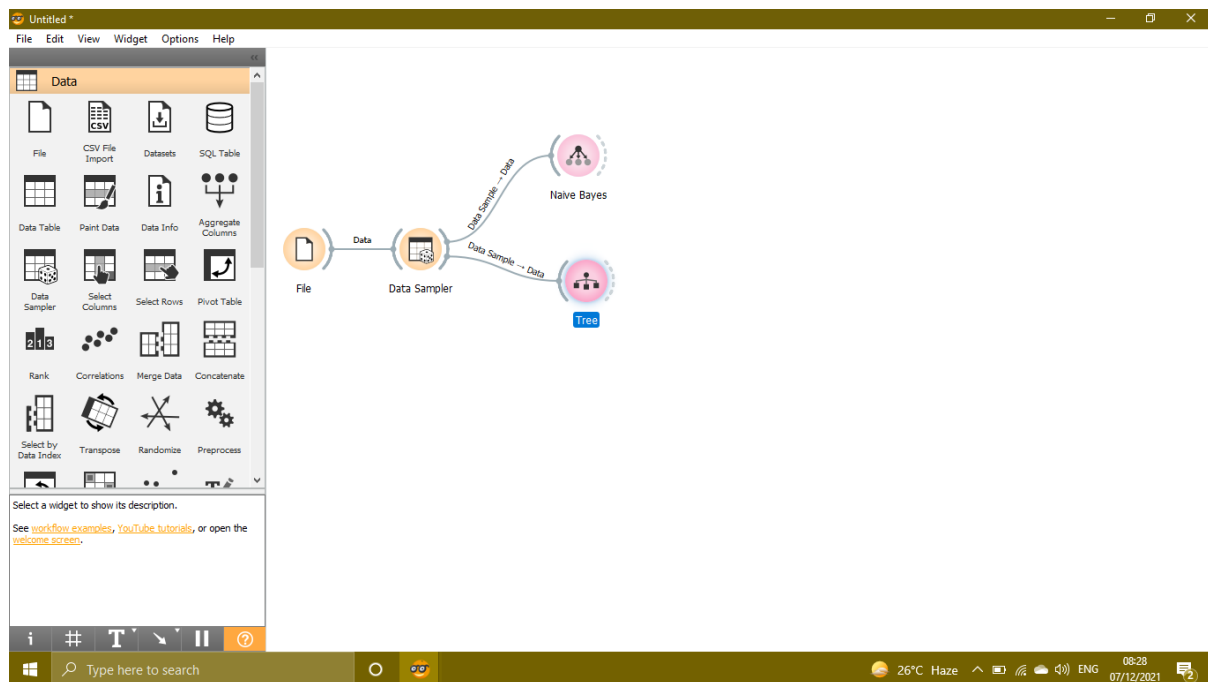
- File
- CSV File Import
- Datasets
- SQL Table
- Data Table
- Paint Data
- Data Info
- Aggregate Columns
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Select a widget to show its description.
See [workflow examples](#), [YouTube tutorials](#), or open the [welcome screen](#).

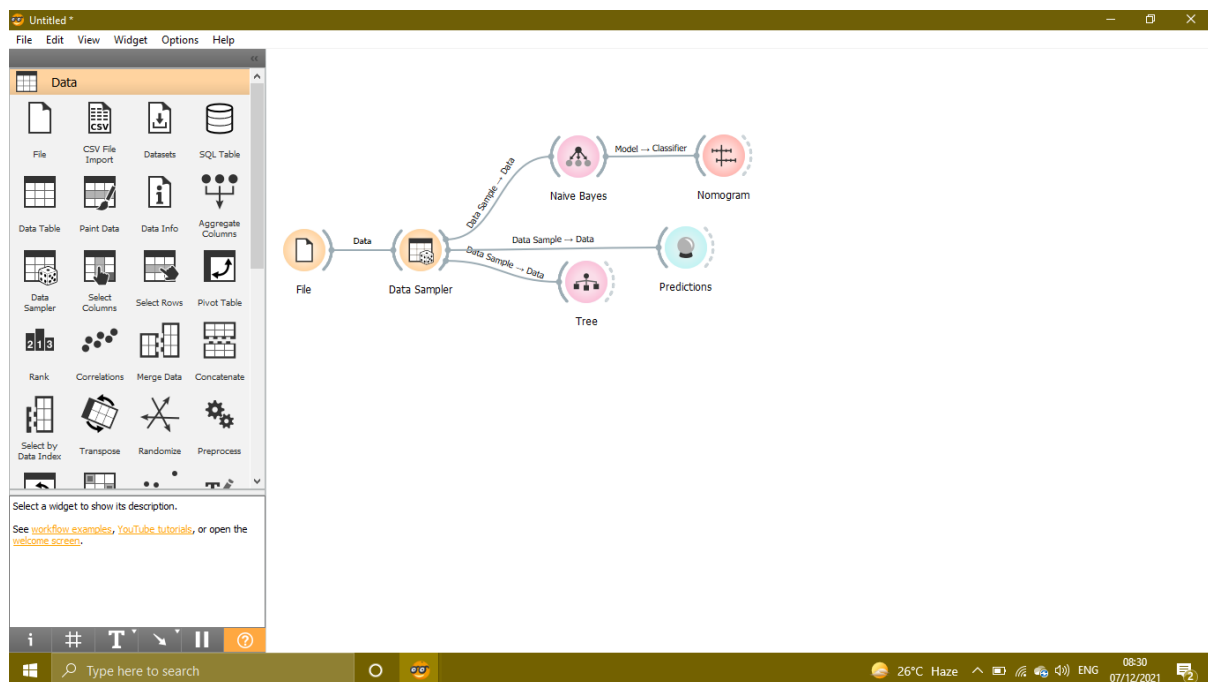
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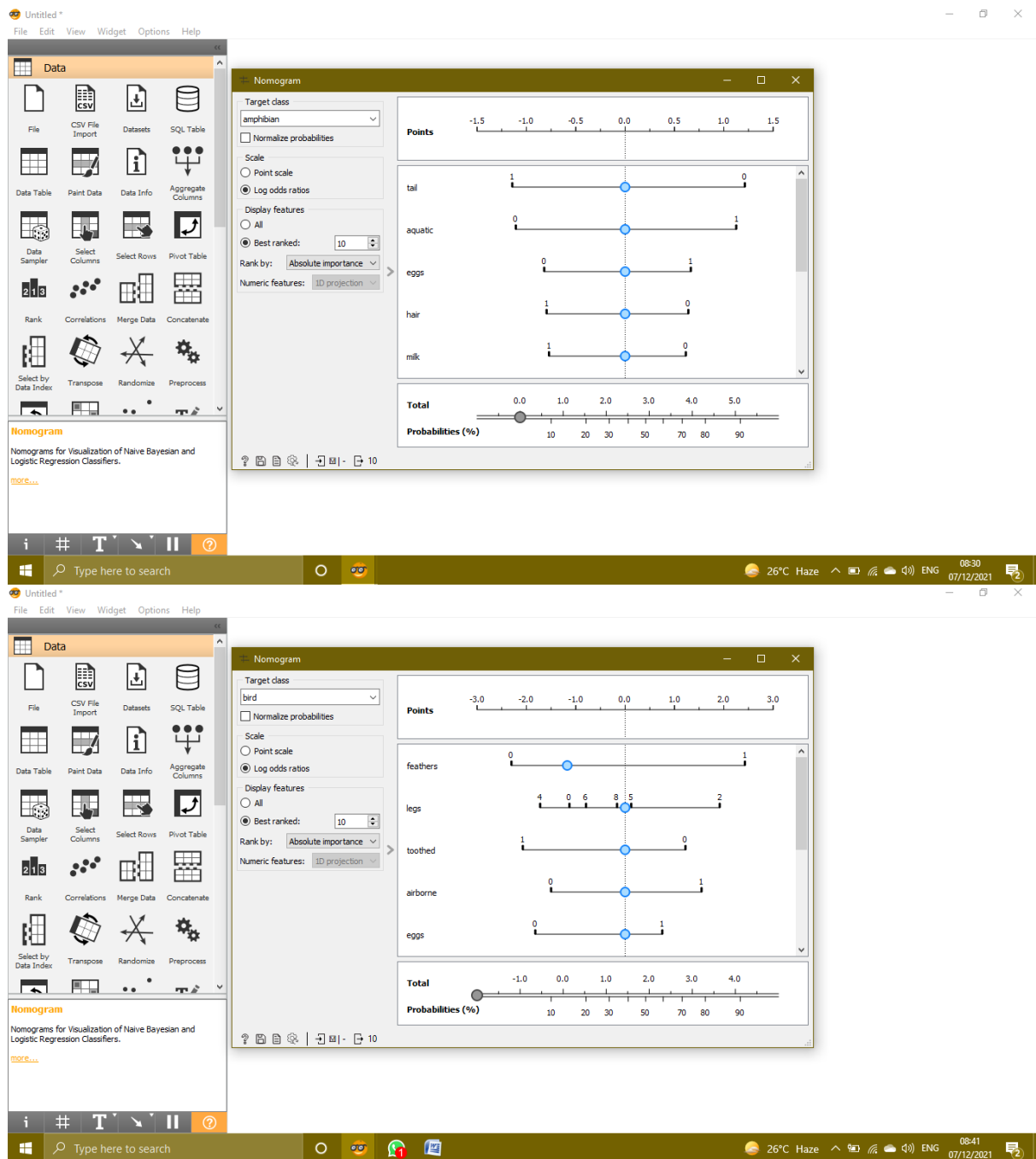
graph LR
    File[File] -- Data --> DataSampler[Data Sampler]
    DataSampler -- "Data Sample -> Data" --> NaiveBayes[Naive Bayes]
    DataSampler -- "Data Sample -> Data" --> Tree[Tree]
    NaiveBayes --> Predictions[Predictions]
    Tree --> Predictions
  
```

Windows taskbar: 26°C Haze, 08:29, 07/12/2021

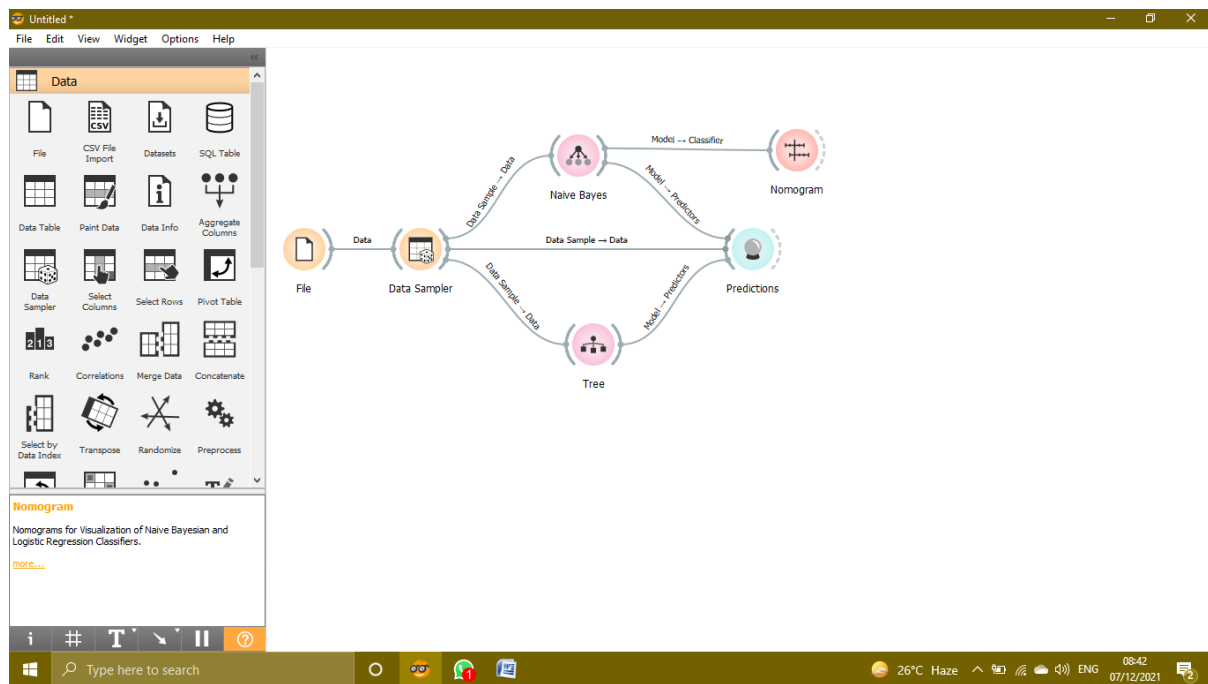


Step5:-The model is also able to show how you can predict the type class of the various attributes so you can use the nomogram for that double click on nomogram and you see the type of target class list so let's see if the you want to see if the data input you can drag these points across by sliding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





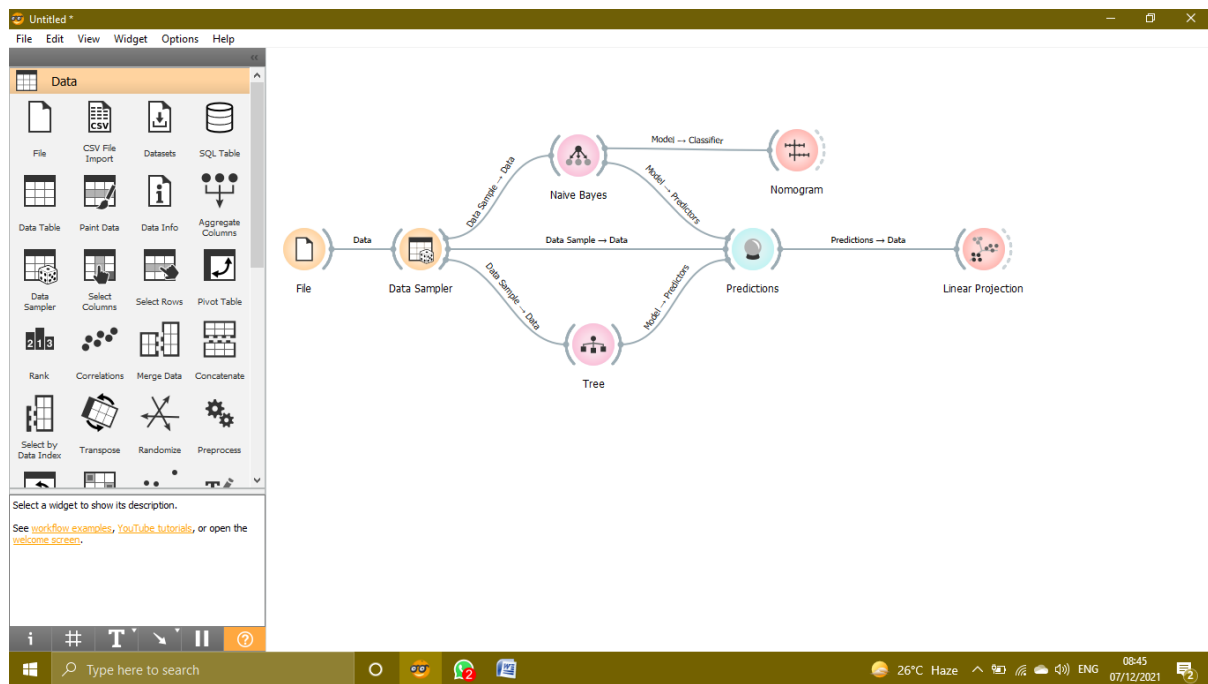
Step6:-Connect the Native Bayes and Classification Tree to Prediction



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

Model	AUC	CA	F1	Precision	Recall
Naive Bayes	1.000	0.944	0.948	0.967	0.944
Tree	0.999	0.986	0.986	0.988	0.986

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.

