

Data Warehousing and Data Mining

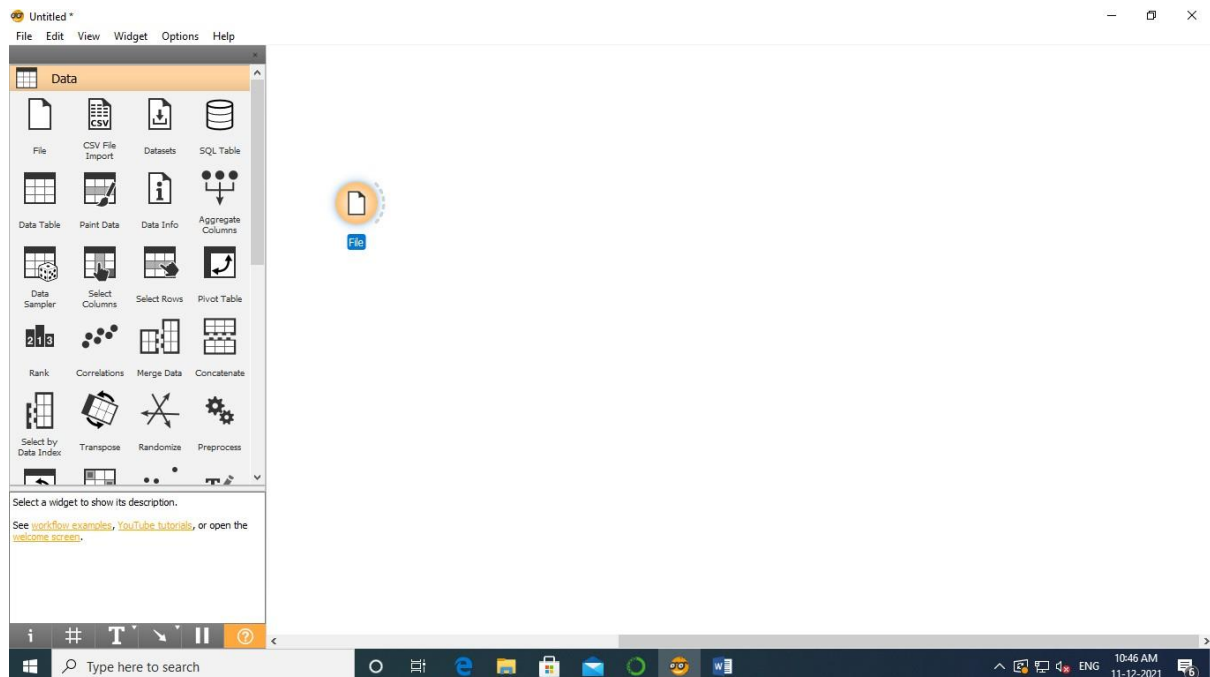
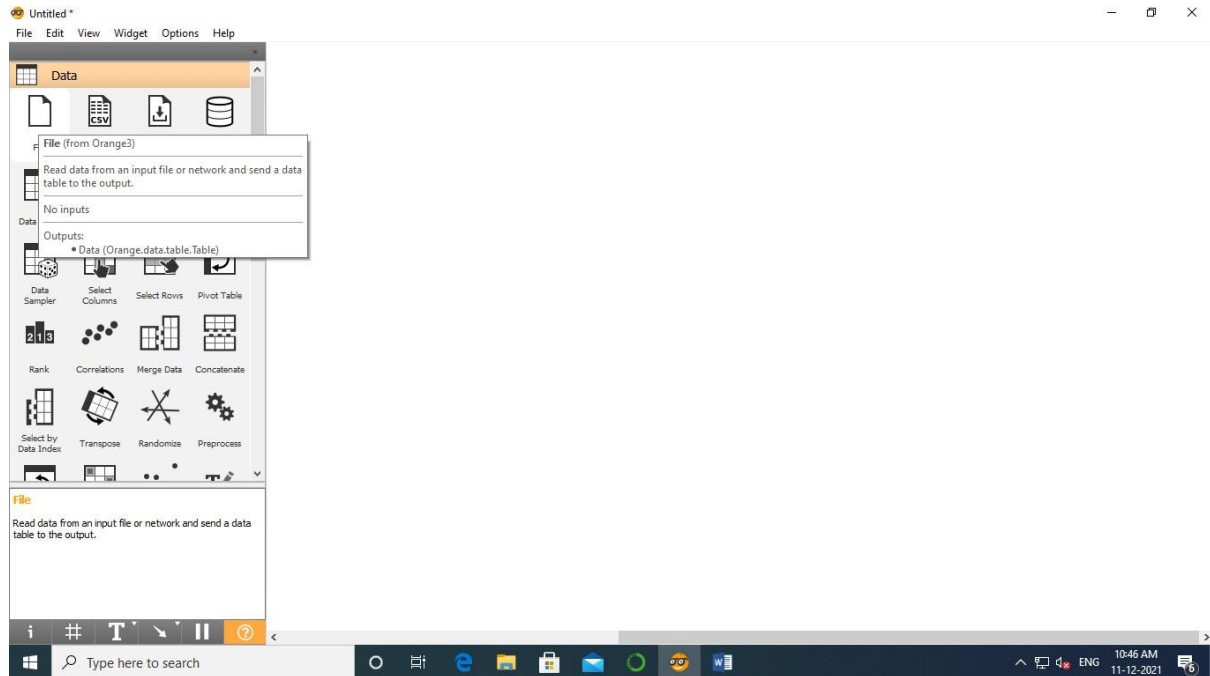
Mini Project

Name: SAYED MOHAMMED OWAIS

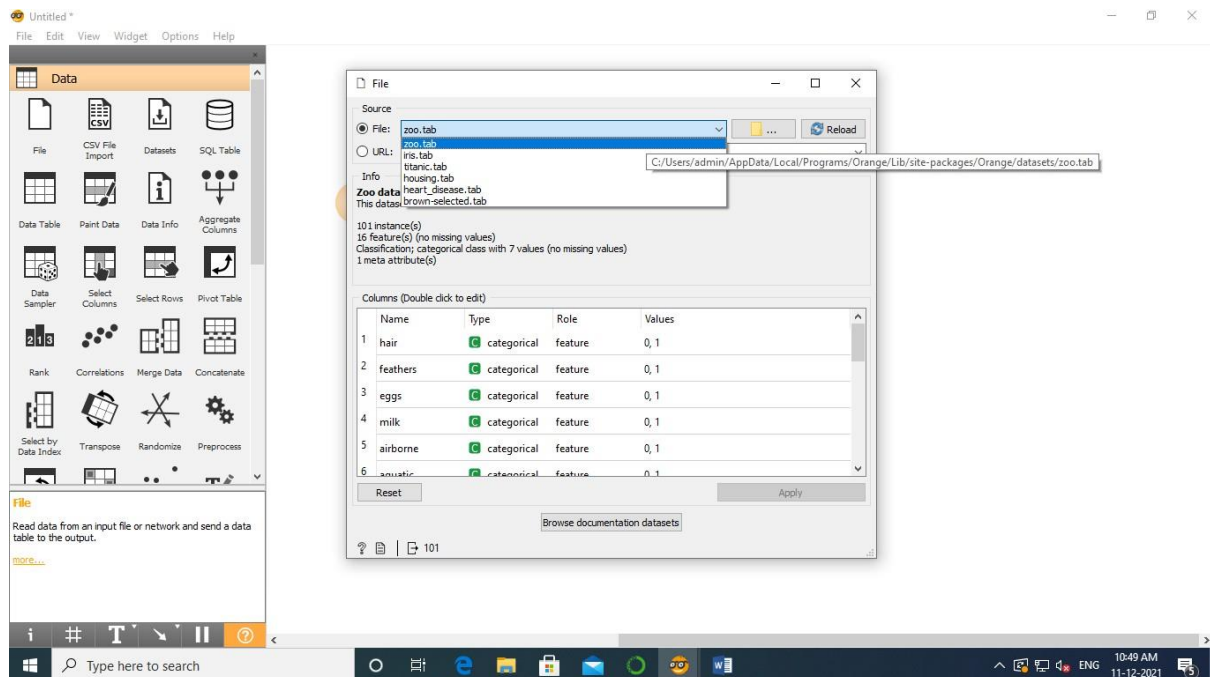
Roll no: 45

Aim: Classification using **Orange** tool

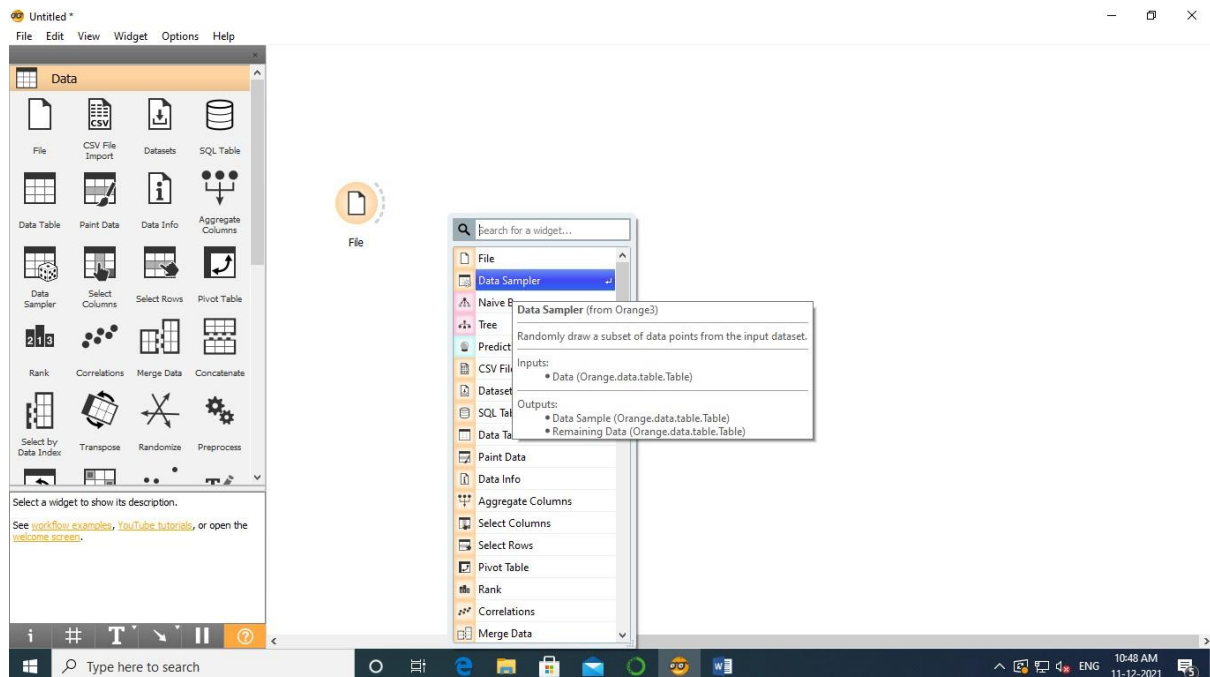
Step 1: Select file and drag & drop on screen.



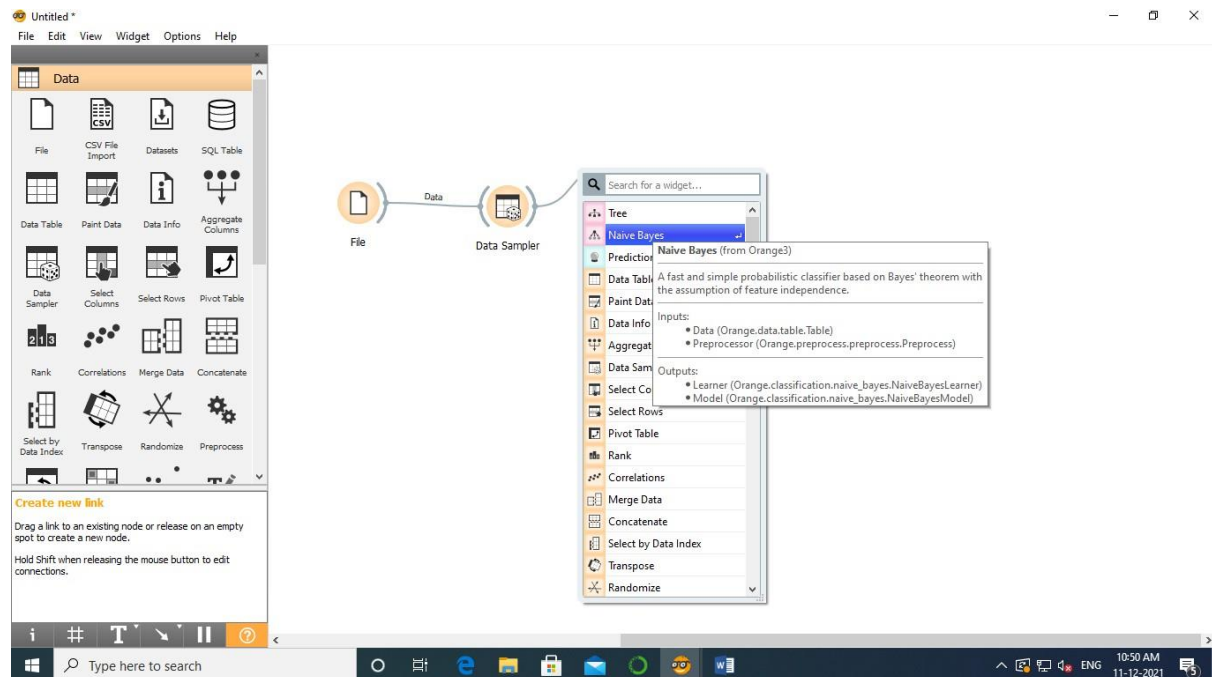
Step 2: Double click on file and select zoo.tab



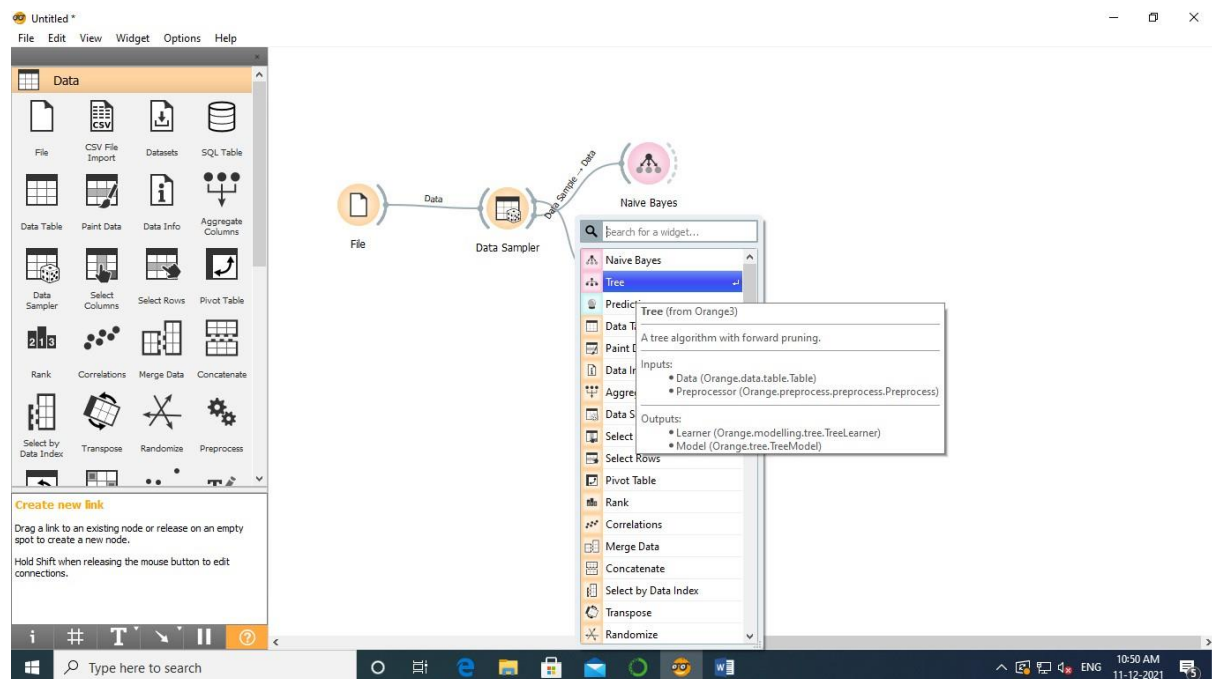
Step 3: Double click on screen and select Data Sampler and connect them both



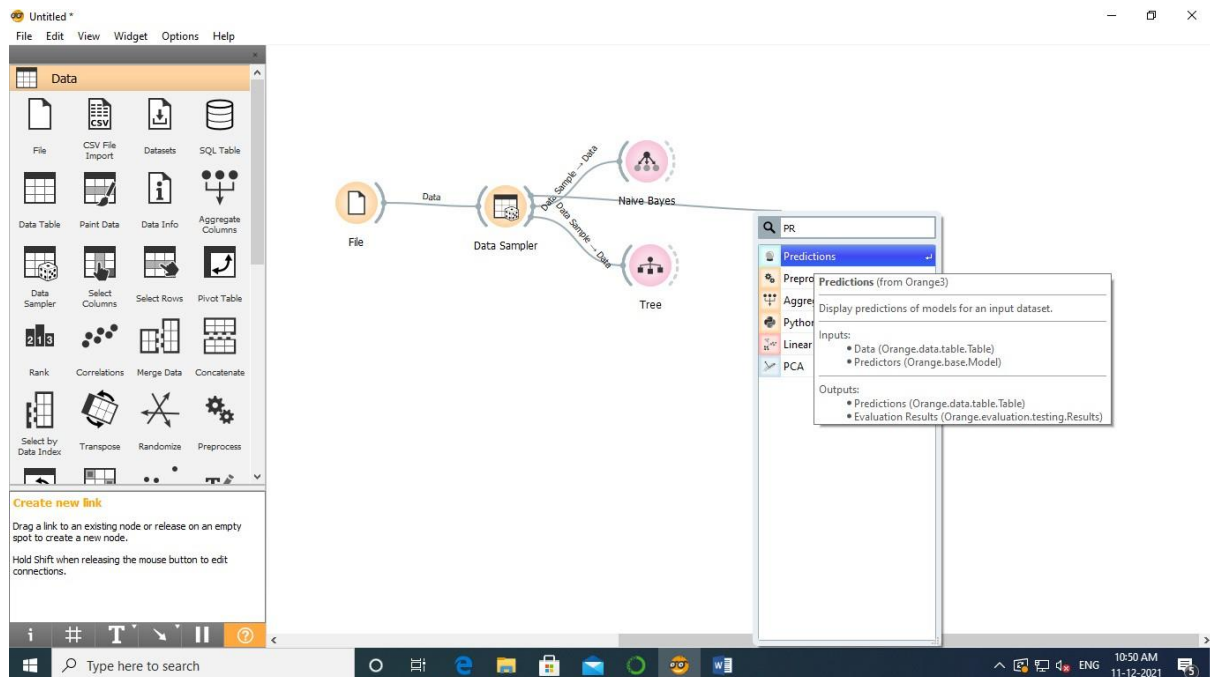
Step 4: Select Navie Bayes and connect it with Data Sampler



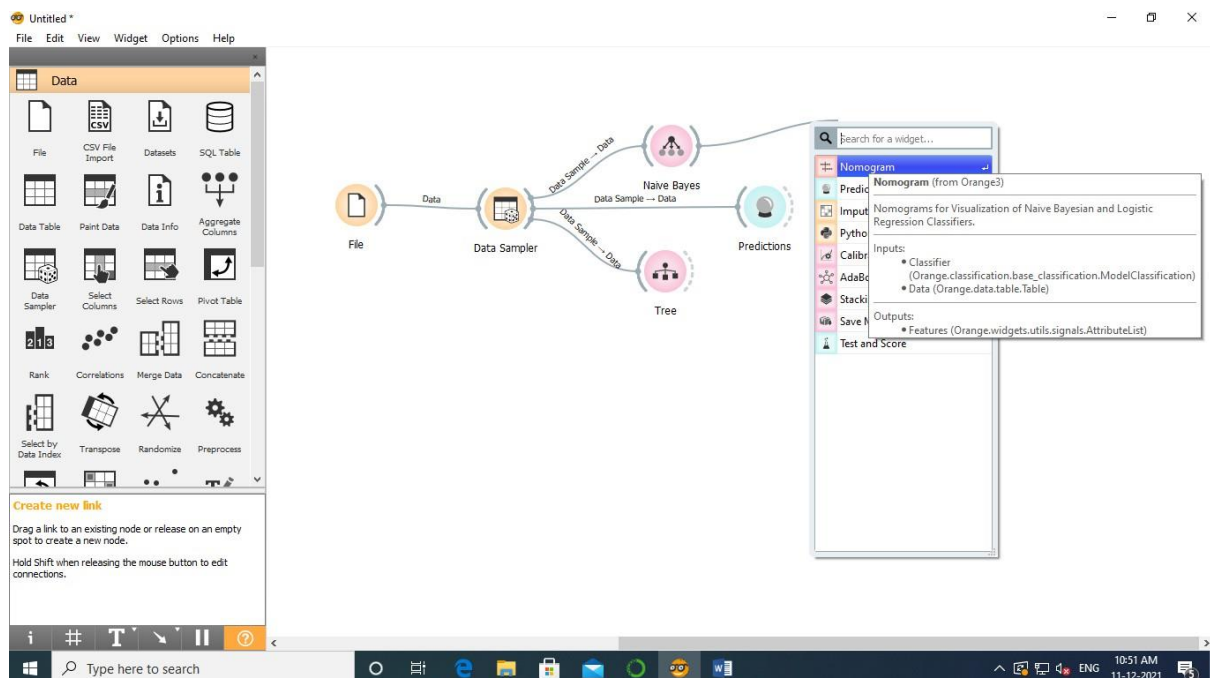
Step 5: Select Tree and connect it with Data Sampler

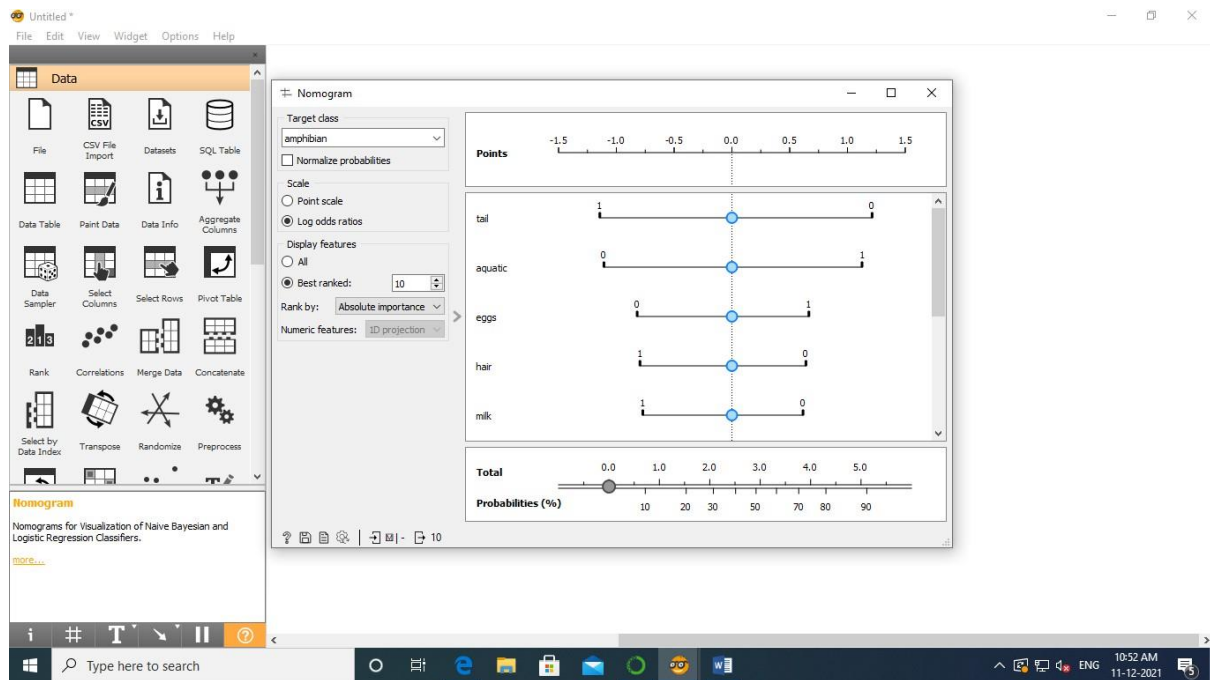


Step 6: Select Prediction and connect it with Data Sampler

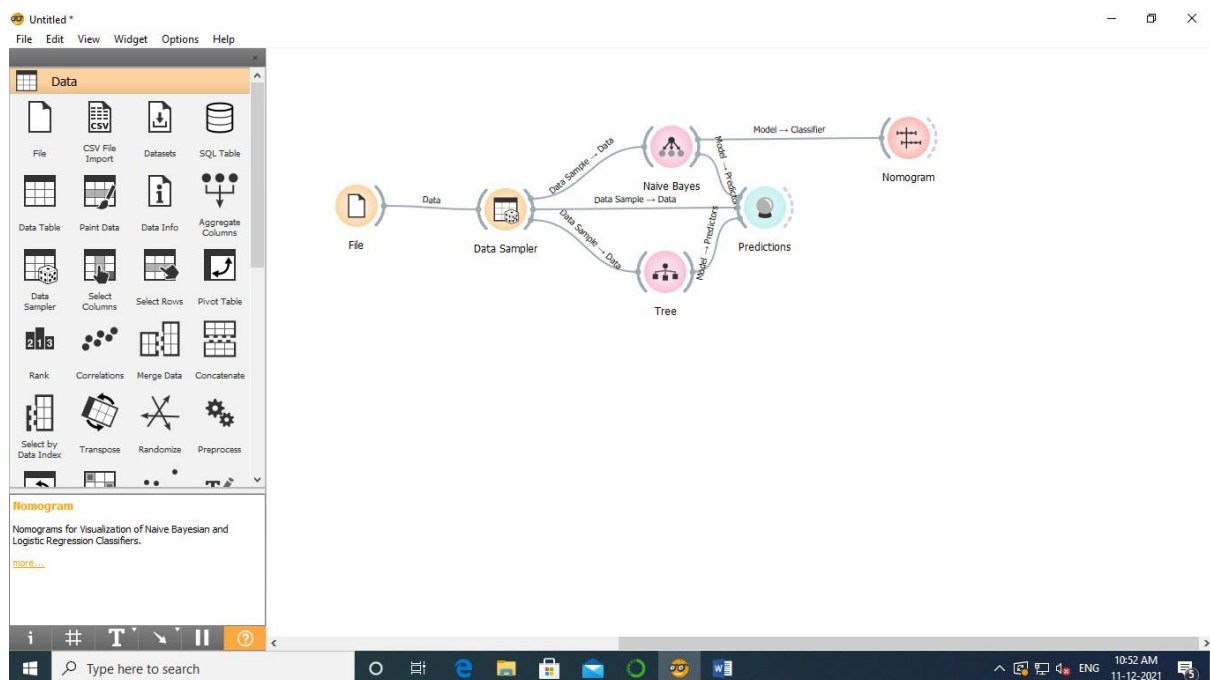


Step 7: Select Homogram and connect it with Navie Bayes and double click on homogram





Step 8: Select Navie Bayes and Tree with Prediction and double click on Prediction



Predictions

Show probabilities for:

- amphibian
- bird
- fish
- insect
- invertebrate
- mammal
- reptile

	Naive Bayes										Tree										tyr
1	0.00	0.00	0.00	0.00	0.00	0.99	0.01	→	mammal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	mammal			
2	0.00	0.00	0.00	0.00	0.00	1.00	0.00	→	mammal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	mammal			
3	0.08	0.00	0.23	0.00	0.00	0.07	0.62	→	reptile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	mammal			
4	0.00	0.00	0.00	0.00	0.00	1.00	0.00	→	mammal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	mammal			
5	0.00	0.00	0.00	0.00	0.00	1.00	0.00	→	mammal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	mammal			
6	0.00	0.00	0.00	1.00	0.00	0.00	0.00	→	insect	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0	insect			
7	0.00	0.00	0.00	0.00	0.00	1.00	0.00	→	mammal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	mammal			
8	0.00	0.00	0.00	0.00	0.00	1.00	0.00	→	mammal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	mammal			
9	0.00	0.00	0.00	0.00	0.00	1.00	0.00	→	mammal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	mammal			
10	0.00	0.00	0.00	0.00	0.00	1.00	0.00	→	mammal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	mammal			
11	0.00	0.00	0.98	0.00	0.00	0.00	0.01	→	fish	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0	fish			
12	0.00	0.00	0.00	1.00	0.00	0.00	0.00	→	insect	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0	insect			
13	0.00	0.00	0.00	1.00	0.00	0.00	0.00	→	insect	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0	insect			
14	0.00	1.00	0.00	0.00	0.00	0.00	0.00	→	bird	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0	bird			

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

Restore Original Order

p(amphibian, bird, fish, insect, invertebrate, mammal, reptile)

Step 9: Select Linear Projection and connect it with Prediction

Linear Projection (from Orange3)

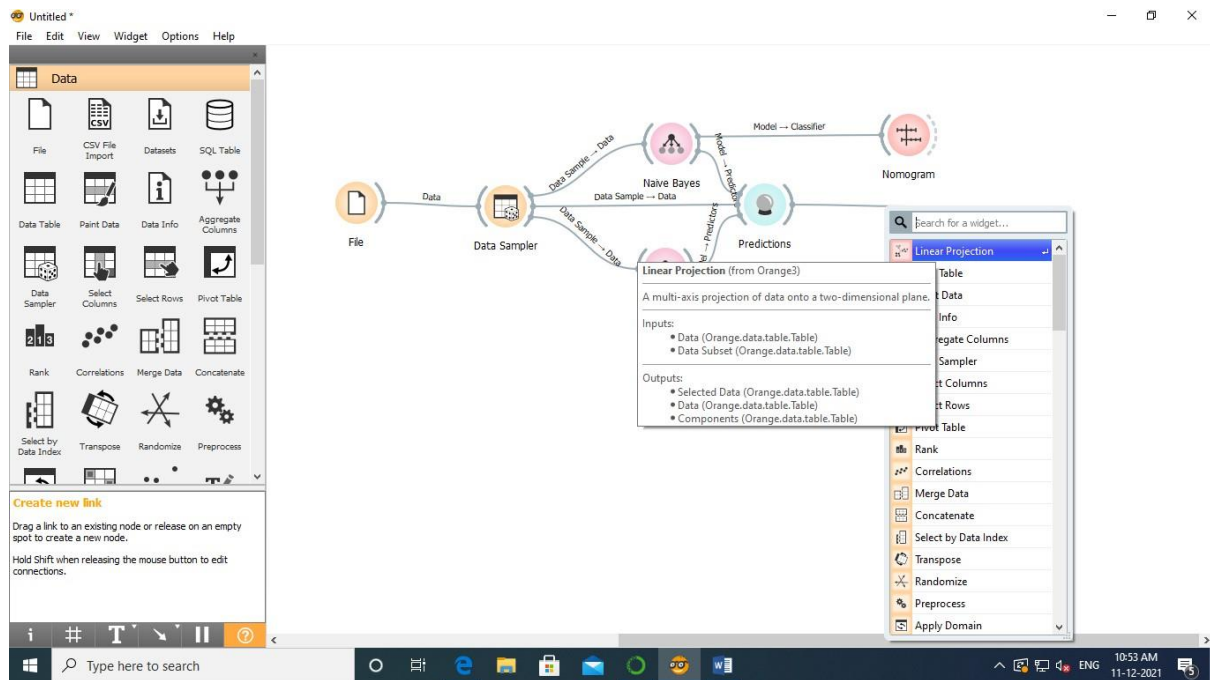
A multi-axis projection of data onto a two-dimensional plane.

Inputs:

- Data (Orange.data.table.Table)
- Data Subset (Orange.data.table.Table)

Outputs:

- Selected Data (Orange.data.table.Table)
- Data (Orange.data.table.Table)
- Components (Orange.data.table.Table)



Step 10: Double click on Linear projection

