

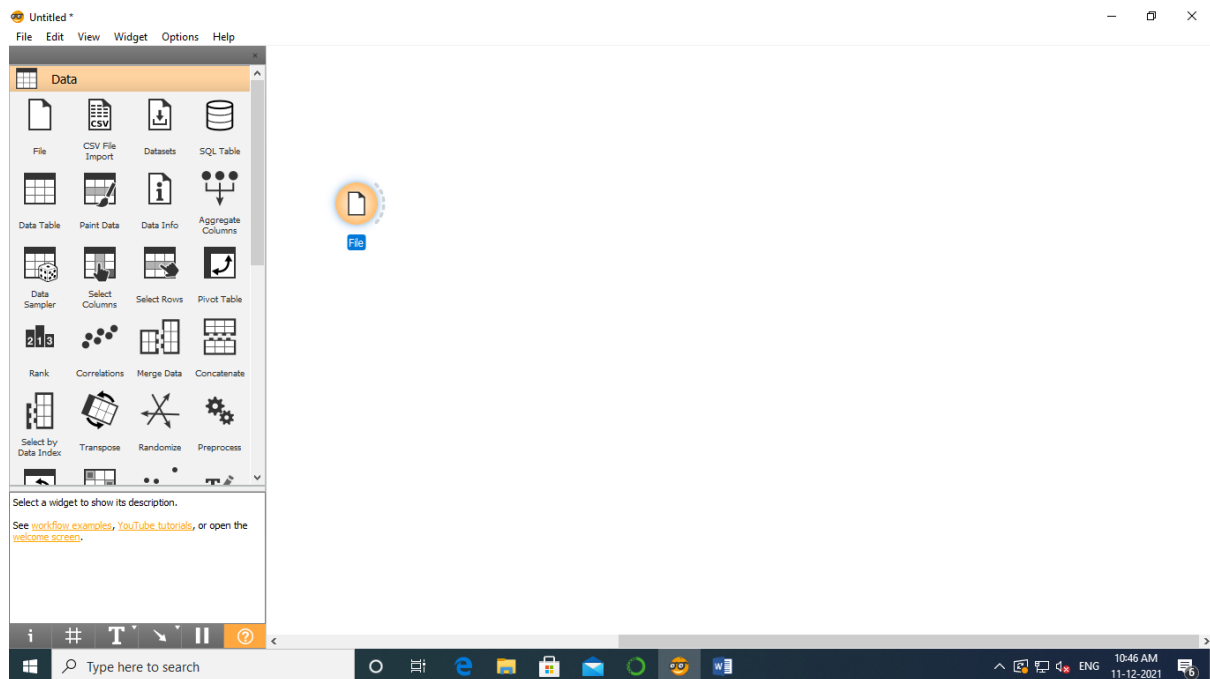
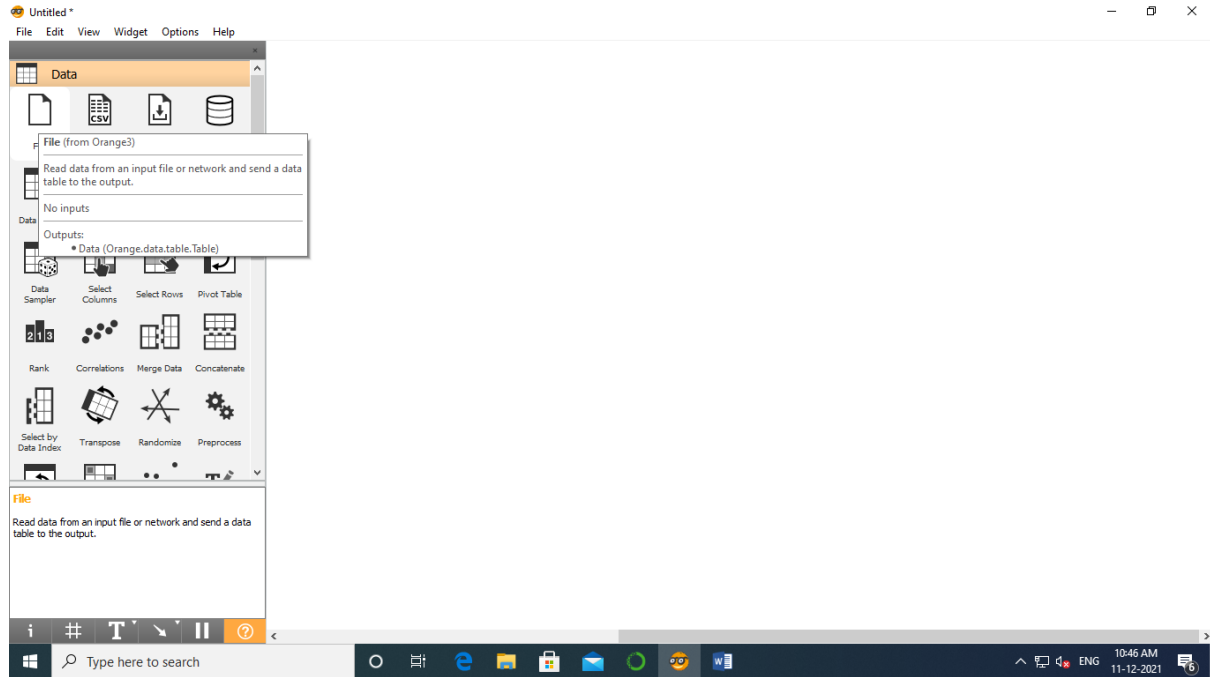
Data Warehousing and Data Mining
Mini Project

Name: Suraj Ravindra Mhatre

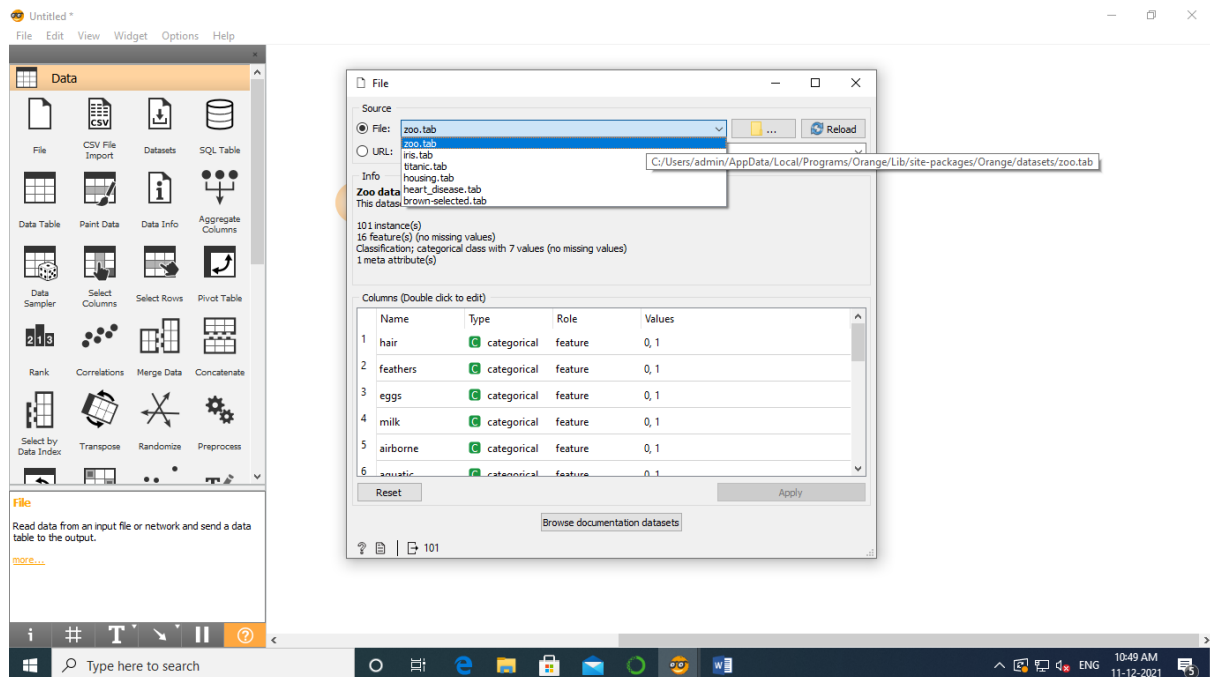
Roll no: 35

Aim: Classification using Orange tool

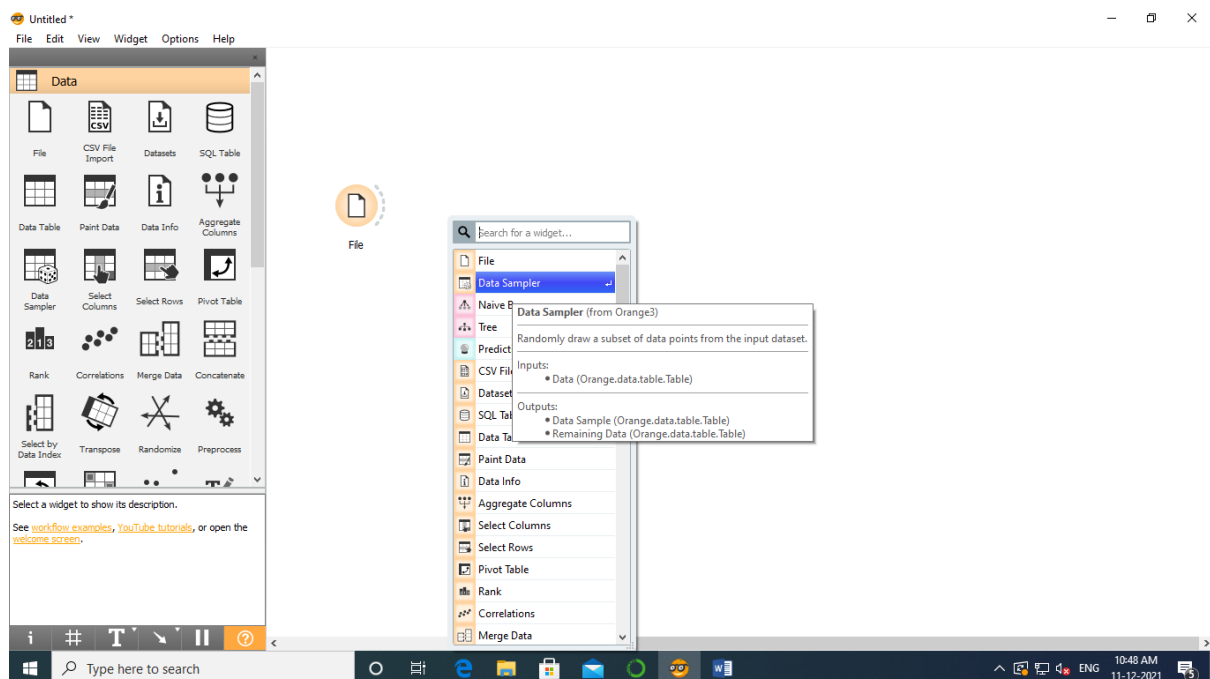
Step 1: Select file and drag & drop on screen.



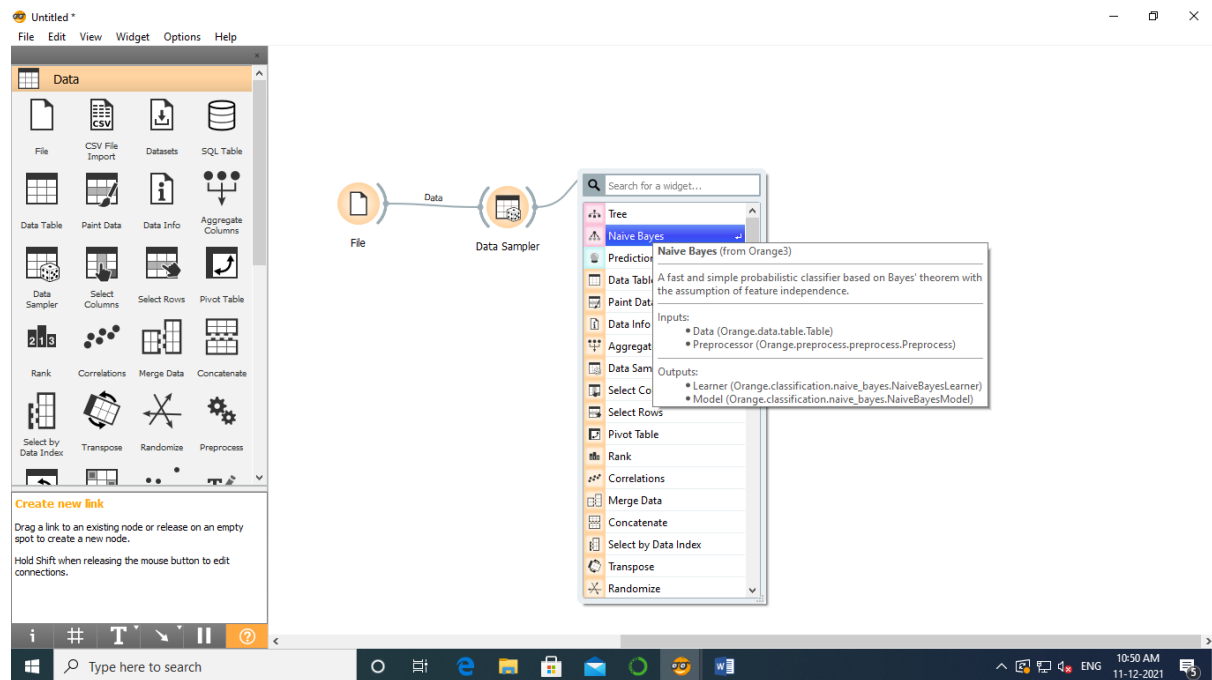
Step 2: Double click on file and select zoo.tab



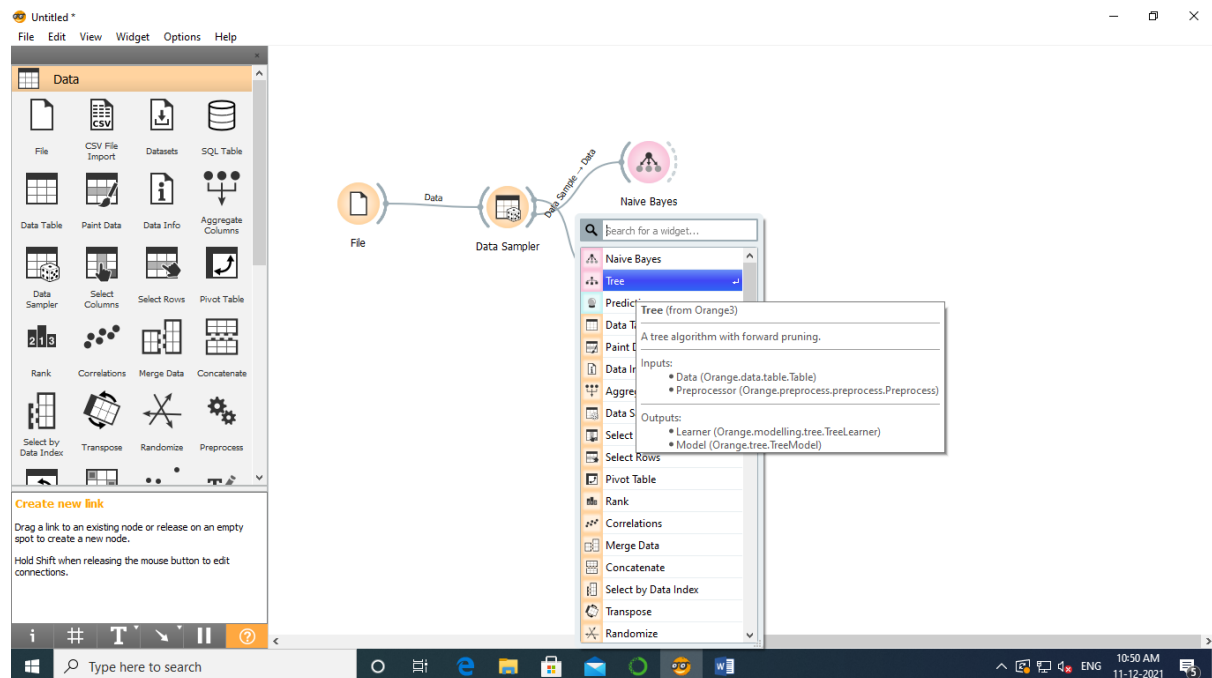
Step 3: Double click on screen and select Data Sampler and connect them both



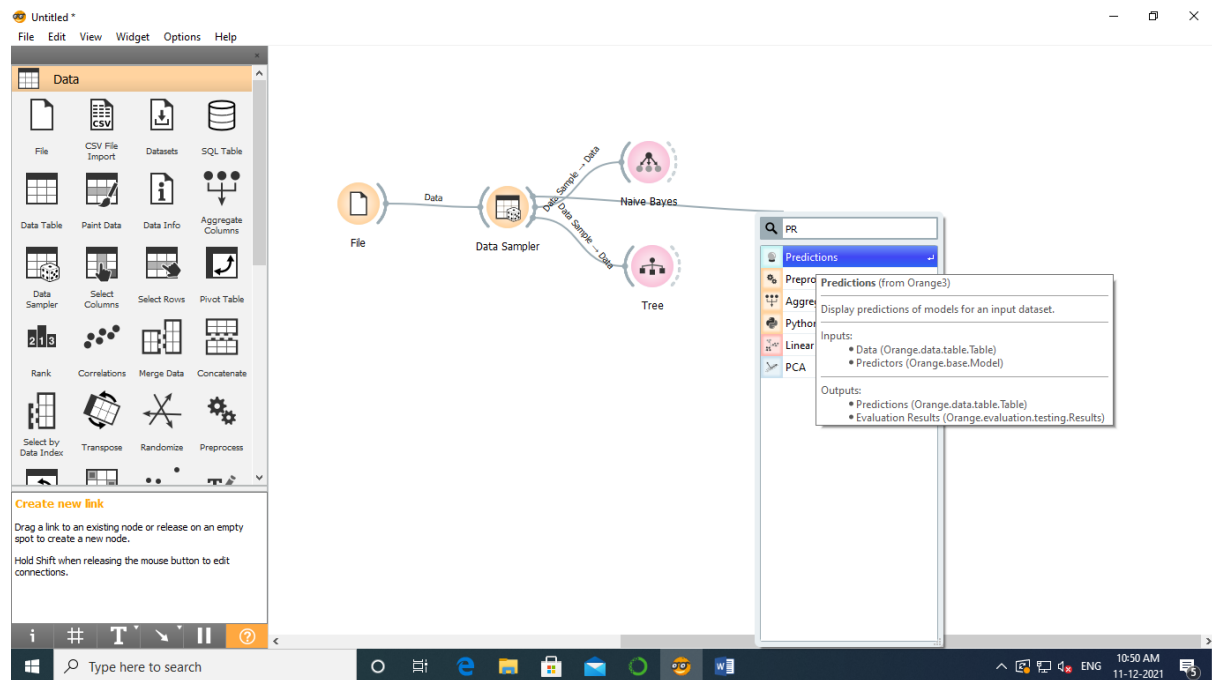
Step 4: Select Navie Bayes and connect it with Data Sampler



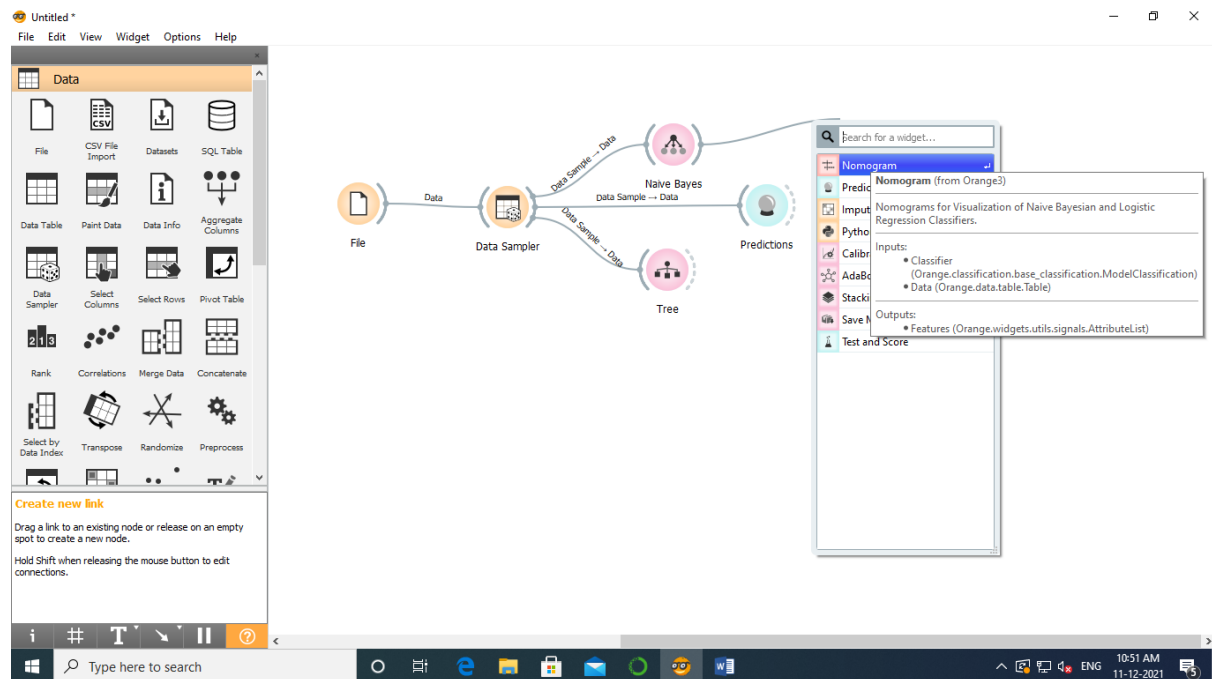
Step 5: Select Tree and connect it with Data Sampler

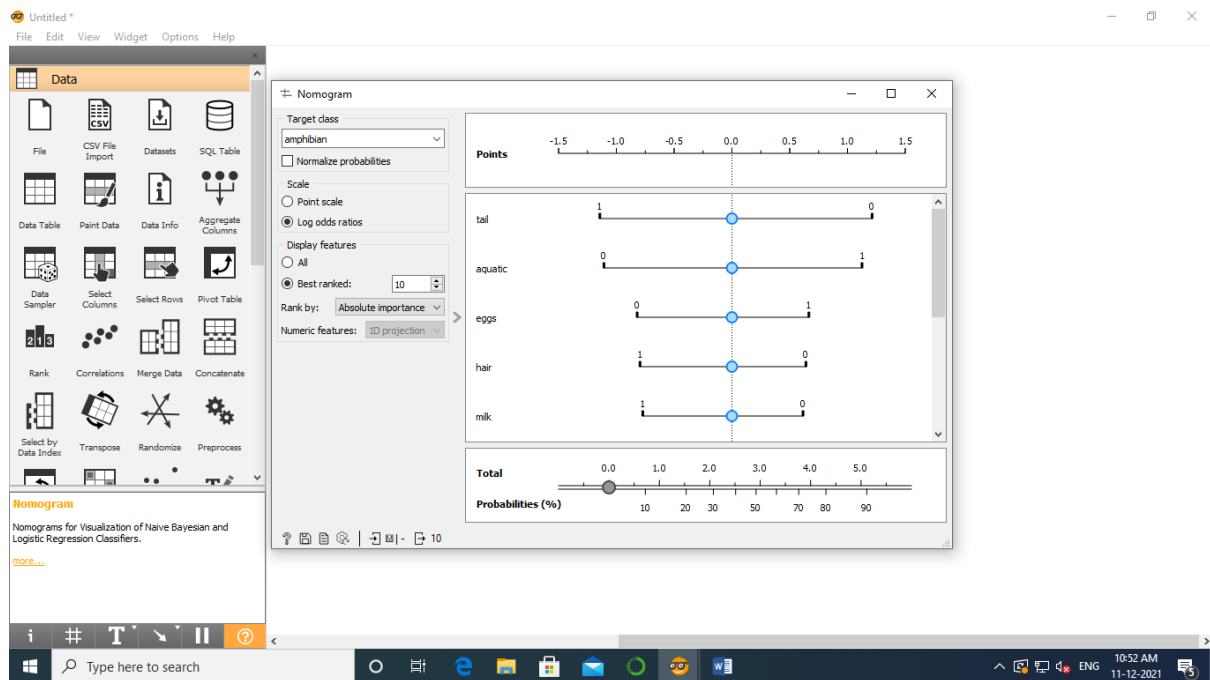


Step 6: Select Prediction and connect it with Data Sampler

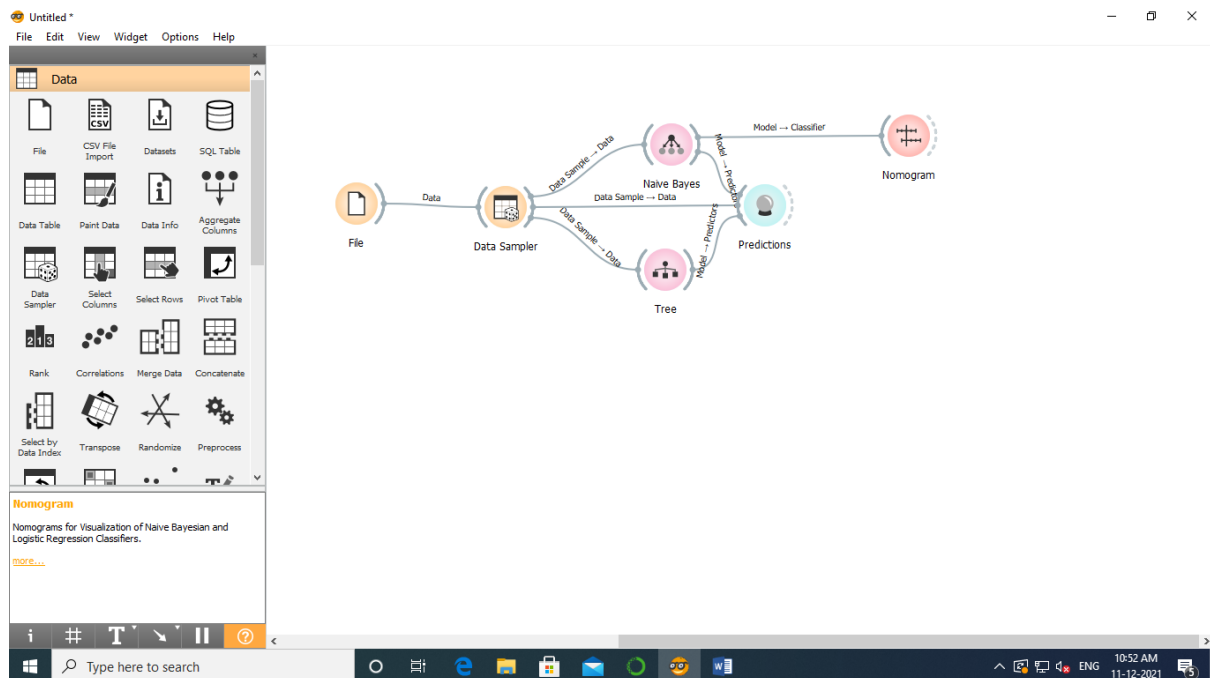


Step 7: Select Homogram and connect it with Navie Bayes and double click on homogram





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



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File Edit View Widget Options Help

Data

Predictions

Show probabilities for
amphibian
bird
fish
insect
invertebrate
mammal
reptile

	Naive Bayes	Tree	type
1	0.00:0.00:0.00:0.00:0.99:0.01 → mammal	0.00:0.00:0.00:0.00:0.00:1	mammal
2	0.00:0.00:0.00:0.00:1.00:0.00 → mammal	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	0.00:0.00:0.00:0.00:0.00:1	mammal
4	0.00:0.00:0.00:0.00:1.00:0.00 → mammal	0.00:0.00:0.00:0.00:0.00:1	mammal
5	0.00:0.00:0.00:0.00:1.00:0.00 → mammal	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 → insect	0.00:0.00:0.00:1.00:0.00:0	insect
7	0.00:0.00:0.00:0.00:1.00:0.00 → mammal	0.00:0.00:0.00:0.00:0.00:1	mammal
8	0.00:0.00:0.00:0.00:1.00:0.00 → mammal	0.00:0.00:0.00:0.00:0.00:1	mammal
9	0.00:0.00:0.00:0.00:1.00:0.00 → mammal	0.00:0.00:0.00:0.00:0.00:1	mammal
10	0.00:0.00:0.00:0.00:1.00:0.00 → mammal	0.00:0.00:0.00:0.00:0.00:1	mammal
11	0.00:0.00:0.98:0.00:0.00:0.01 → fish	0.00:0.00:1.00:0.00:0.00:0	fish
12	0.00:0.00:0.00:1.00:0.00:0.00 → insect	0.00:0.00:0.00:1.00:0.00:0	insect
13	0.00:0.00:0.00:1.00:0.00:0.00 → insect	0.00:0.00:0.00:1.00:0.00:0	insect
14	0.00:1.00:0.00:0.00:0.00:0.00 → bird	0.00:1.00:0.00:0.00:0.00:0	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

71 | 71 | 71 | 2x71

Type here to search

10:52 AM
11-12-2021

Step 9: Select Linear Projection and connect it with Prediction

Untitled *
File Edit View Widget Options Help

Data

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.

File

Data Sampler

Naive Bayes

Predictions

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)

Search for a widget...

Linear Projection

Table

Data

Info

Aggregate Columns

Sampler

Columns

Rows

Pivot Table

Rank

Correlations

Merge Data

Concatenate

Select by Data Index

Transpose

Randomize

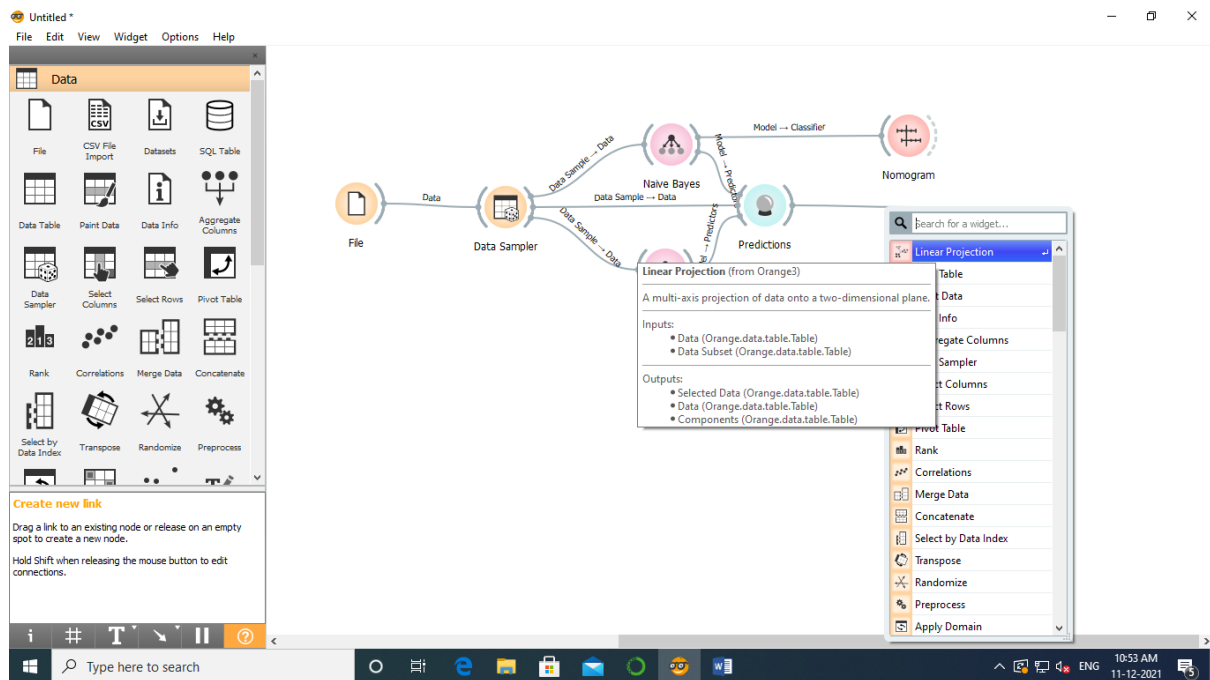
Preprocess

Apply Domain

Normogram

Type here to search

10:53 AM
11-12-2021



Step 10: Double click on Linear projection

