

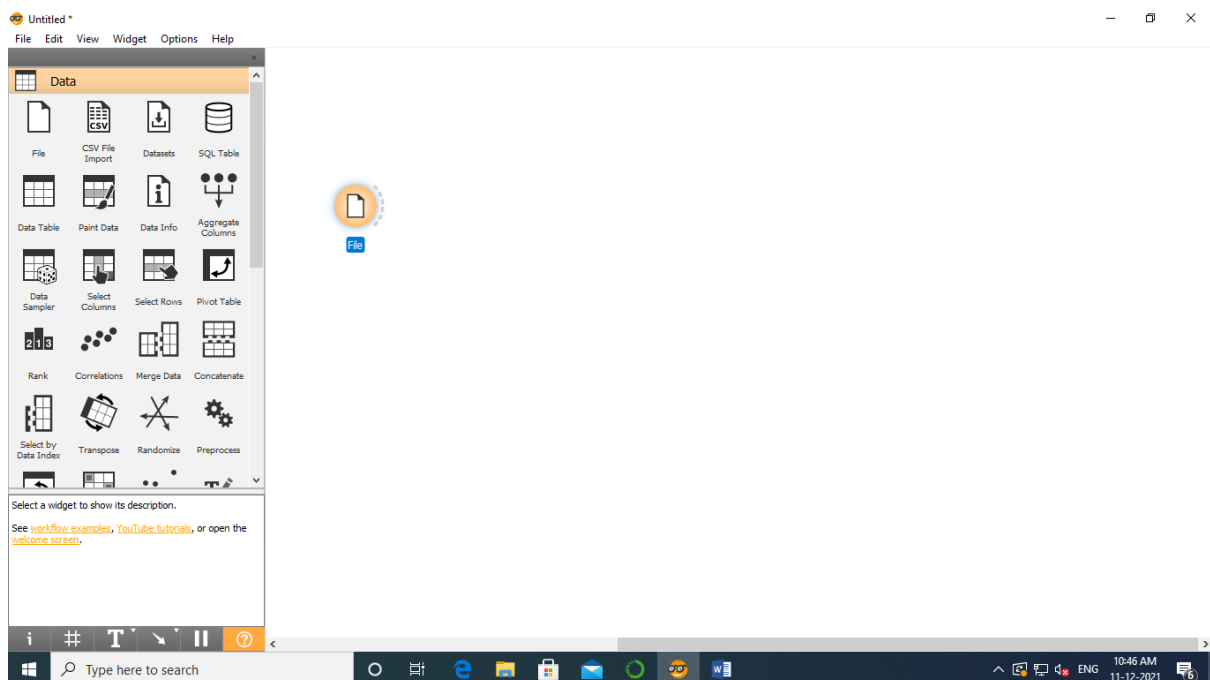
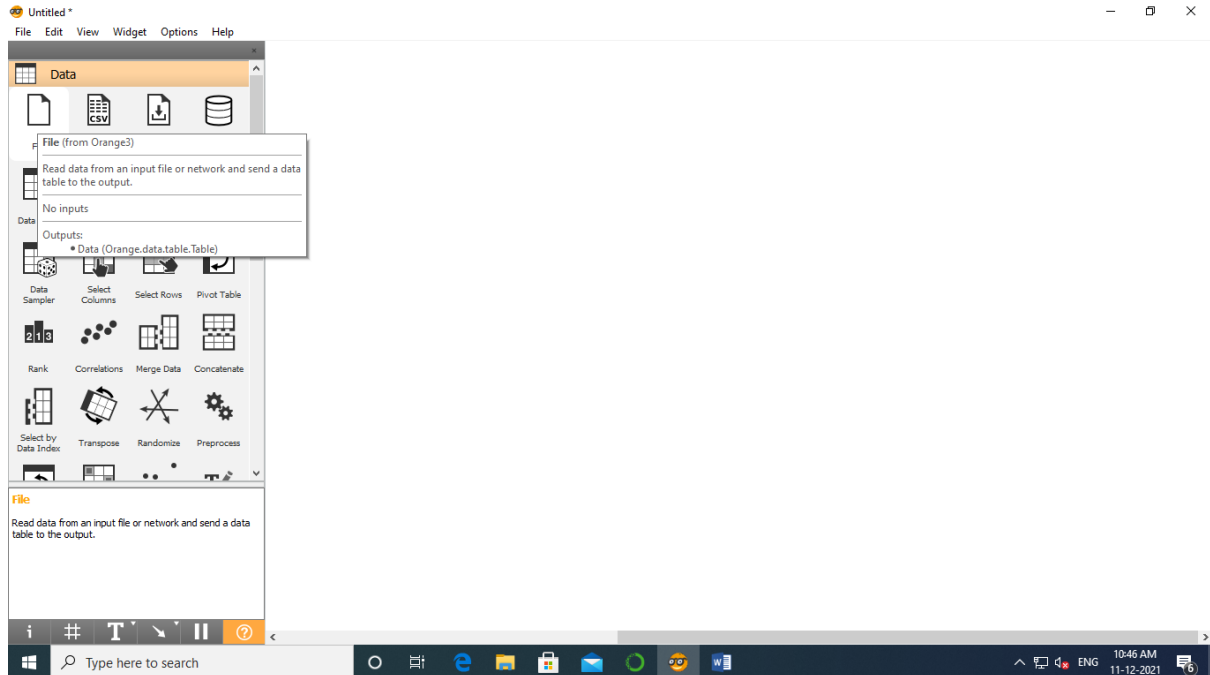
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Class :- MSc CS Part 1

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Data Warehousing And Data Mining

Aim: Classification using orange tool

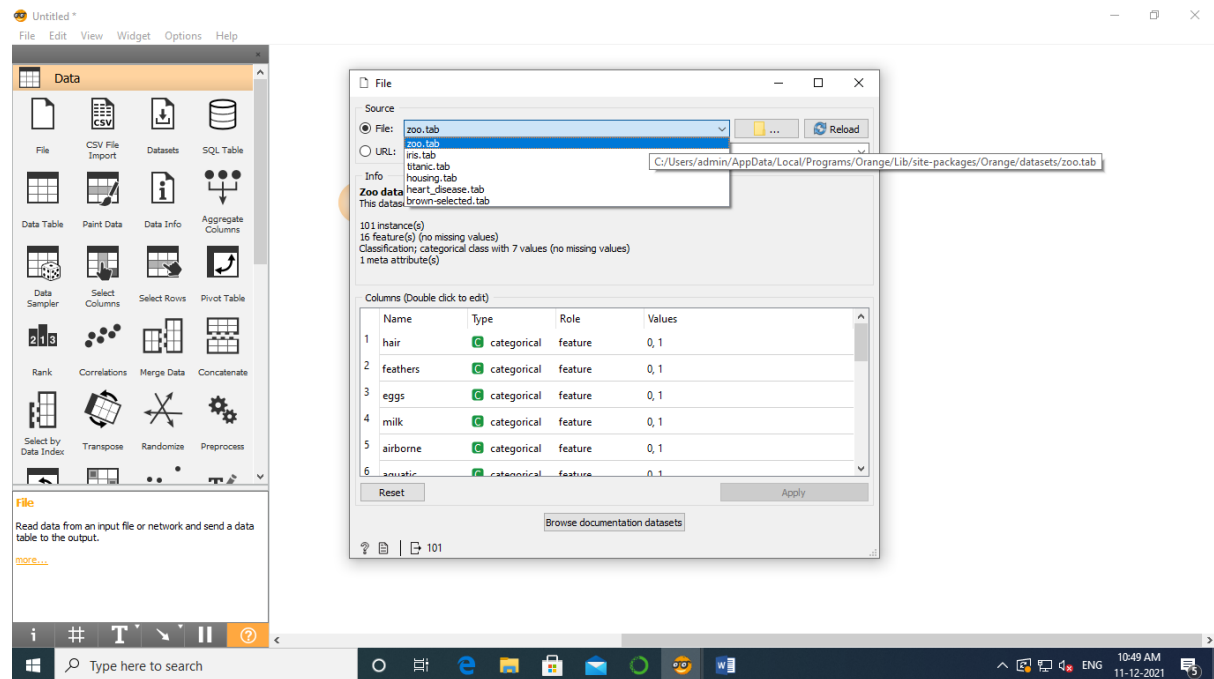
Step 1: Select file and drag & drop on screen.



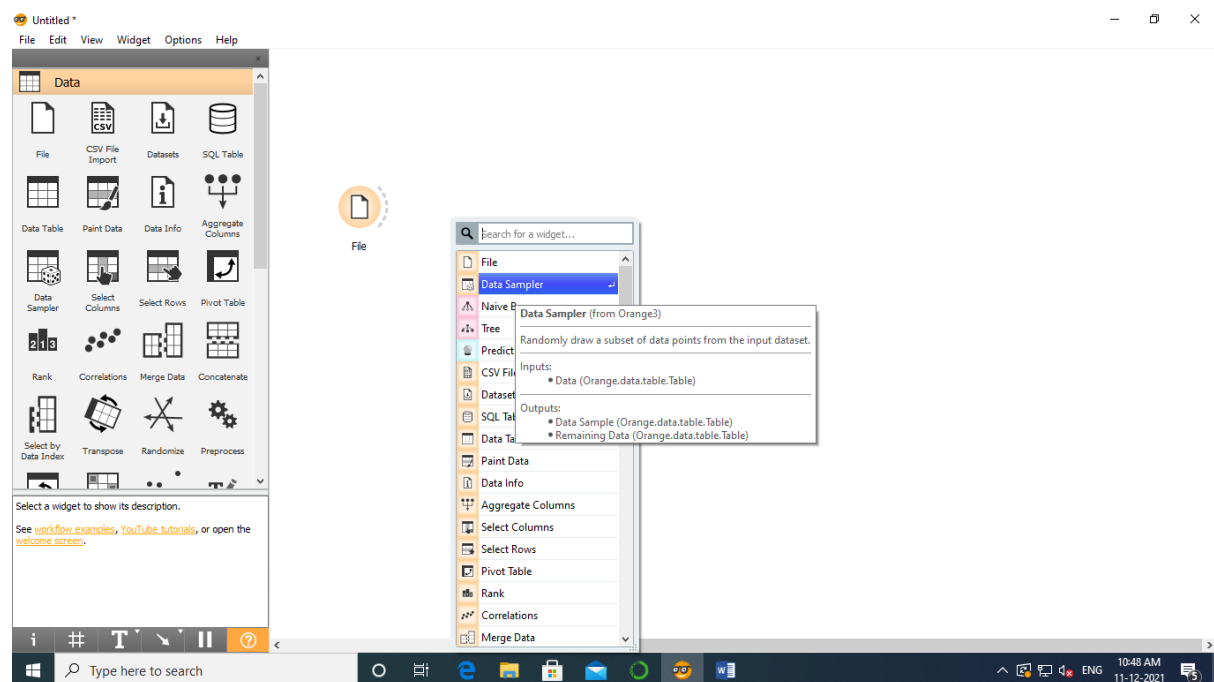
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Step 2: Double click on file and select zoo.tab



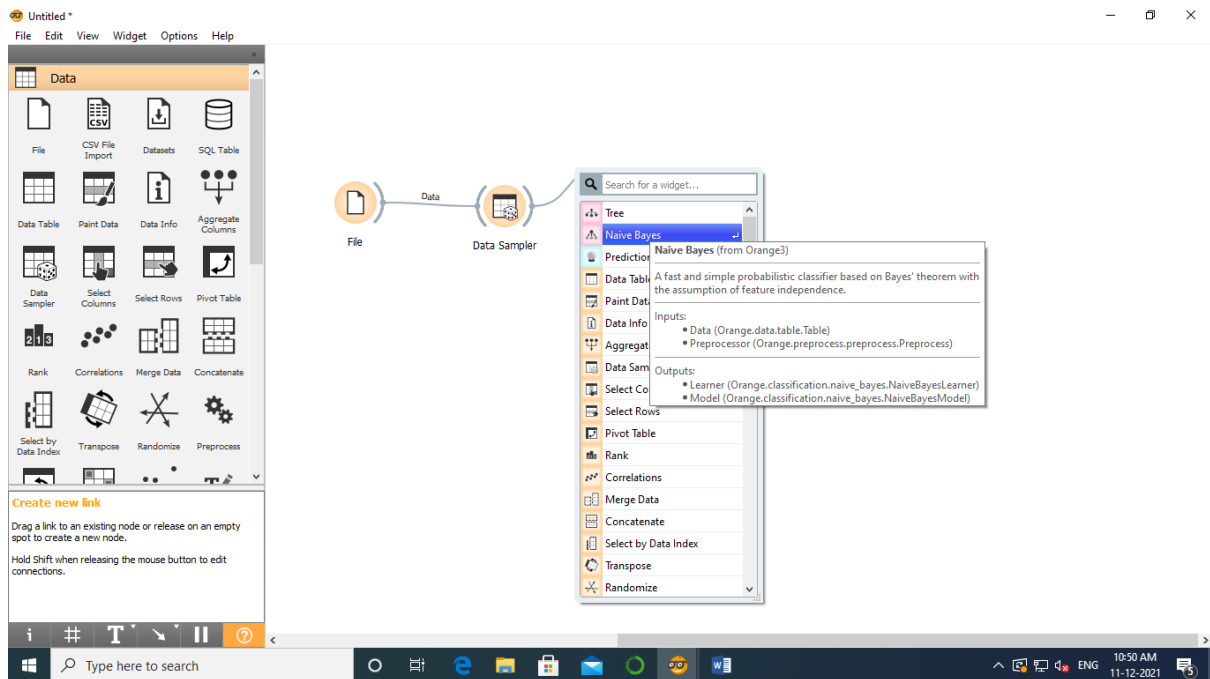
Step 3: Double click on screen and select Data Sampler and connect them both



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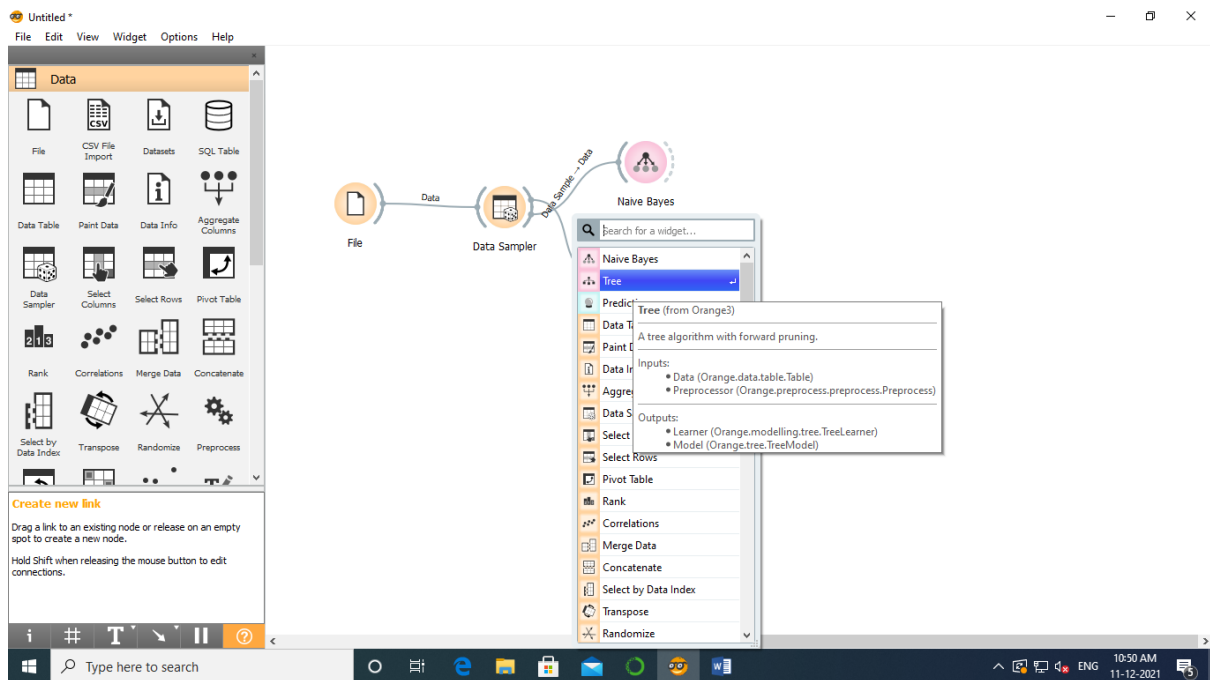
Step 4: Select Navie Bayes and connect it with Data Sampler



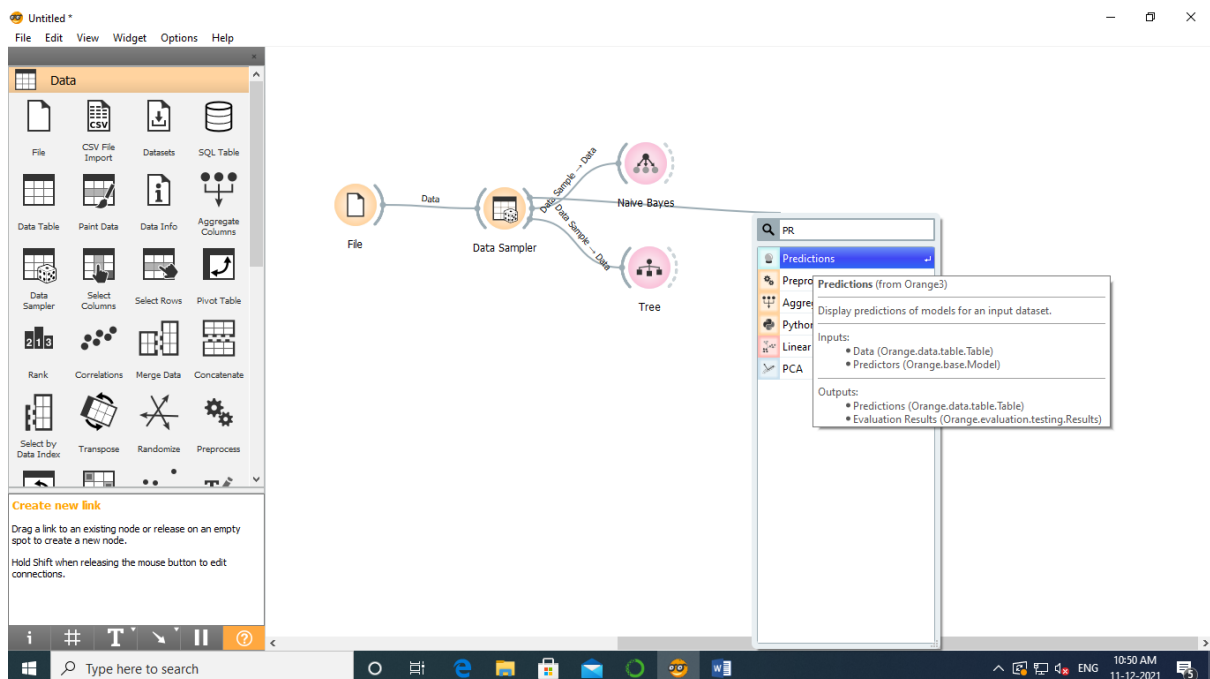
Step 5: Select Tree and connect it with Data Sampler

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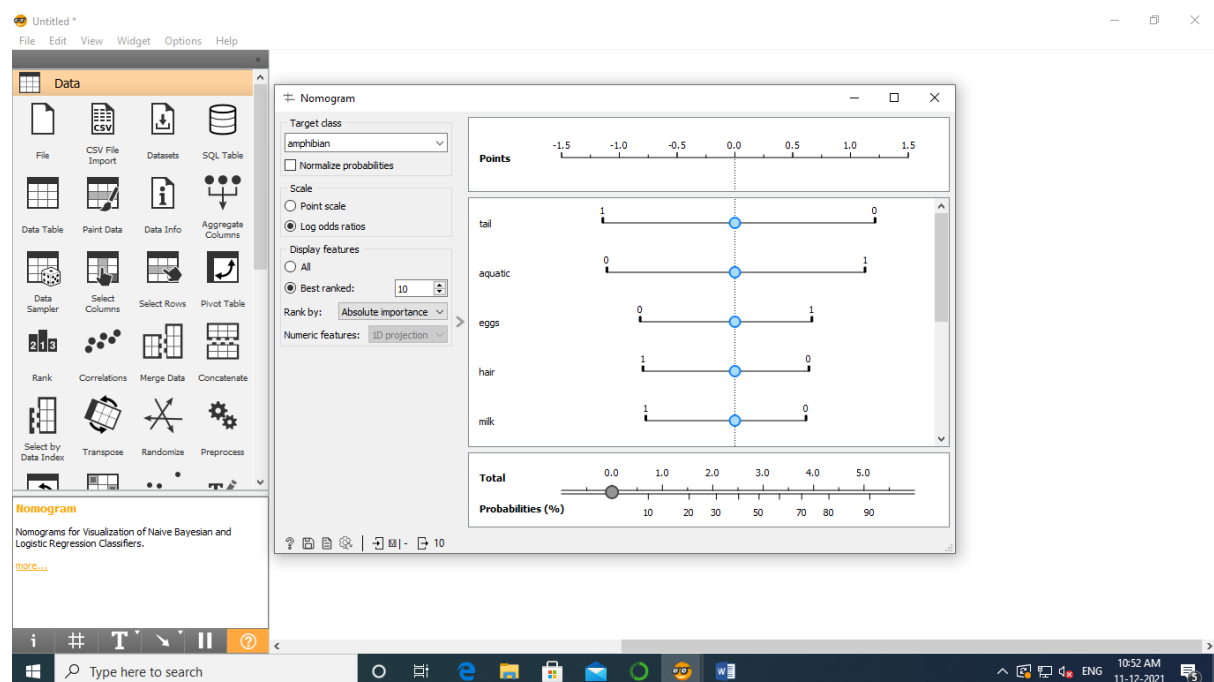
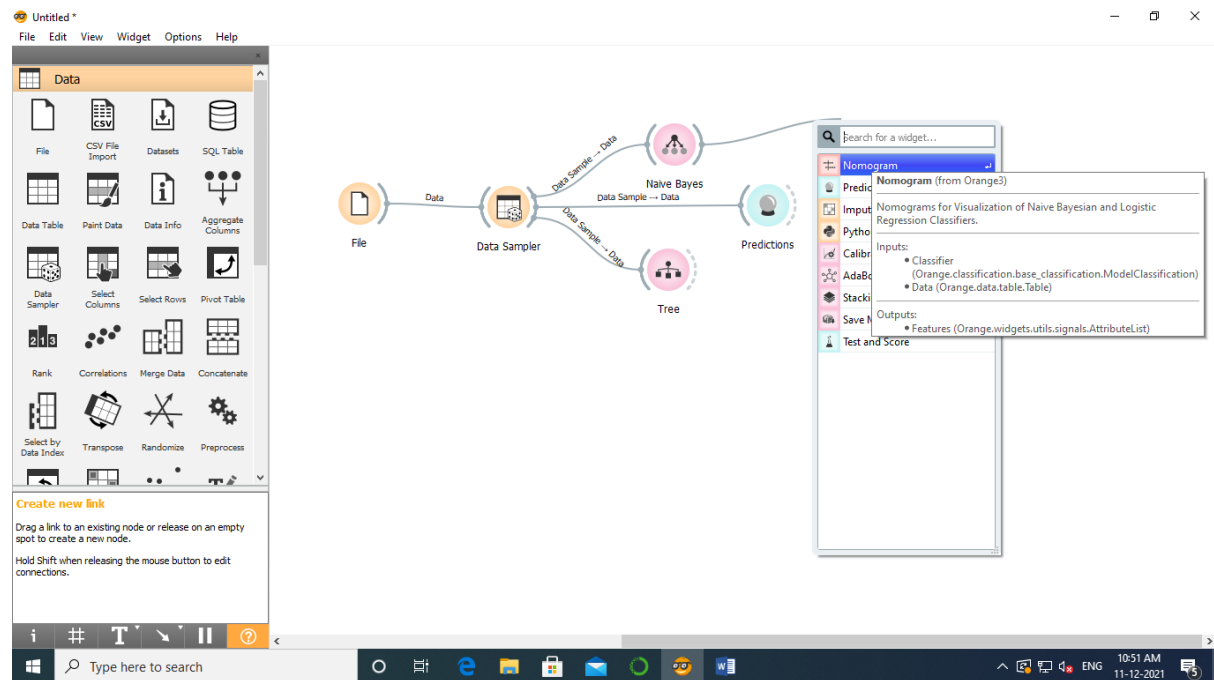
Step 6: Select Predication and connect it with Data Sampler



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

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

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The screenshot displays the Orange 3.12.1 data mining software interface. The main workflow area shows a sequence of widgets: 'File' (orange circle) connects to 'Data Sampler' (orange circle), which then branches into two parallel paths. The top path goes through 'Naive Bayes' (pink circle) and 'Data Sample -> Data' (pink circle) to 'Model -> Classifier' (pink circle). The bottom path goes through 'Tree' (pink circle) and 'Data Sample -> Data' (pink circle) to 'Model -> Classifier' (pink circle). Both 'Model -> Classifier' widgets connect to 'Predictions' (pink circle), which finally connects to 'Nomogram' (pink circle). The left sidebar contains a 'Data' widget palette with various options like 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, and Preprocess. Below the palette is a 'Nomogram' section with a description: 'Nomograms for Visualization of Naive Bayesian and Logistic Regression Classifiers.' The bottom status bar shows the Windows taskbar with the search bar and system clock (10:52 AM, 11-12-2021).

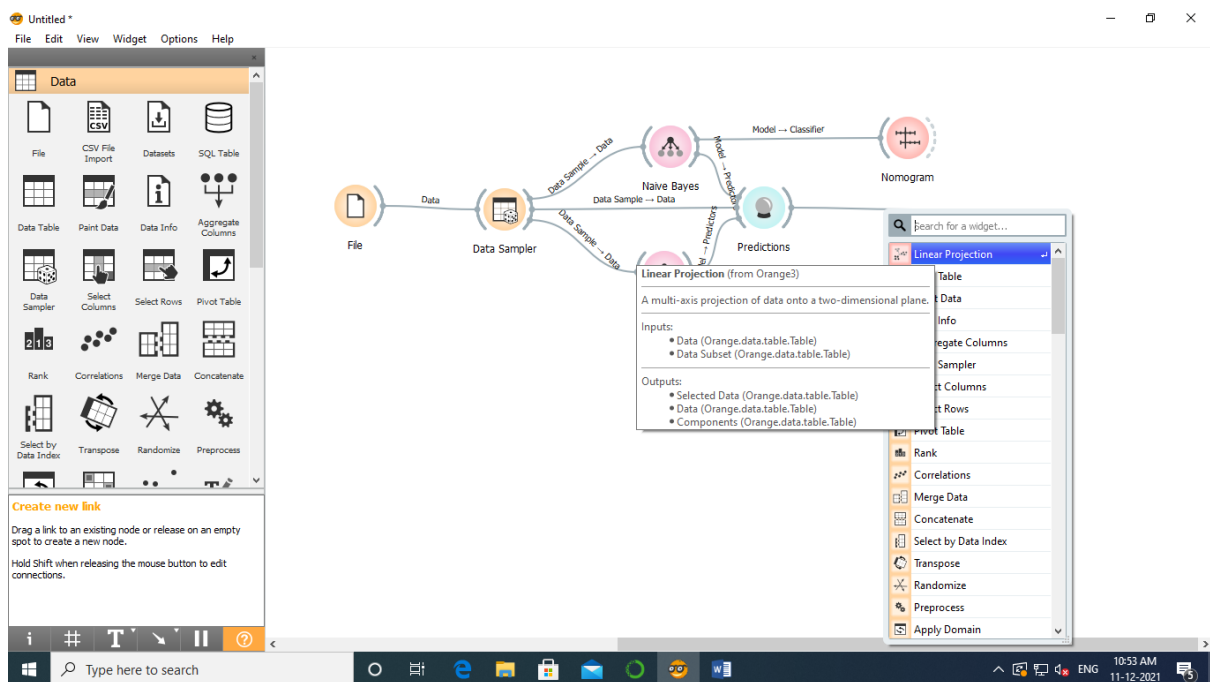
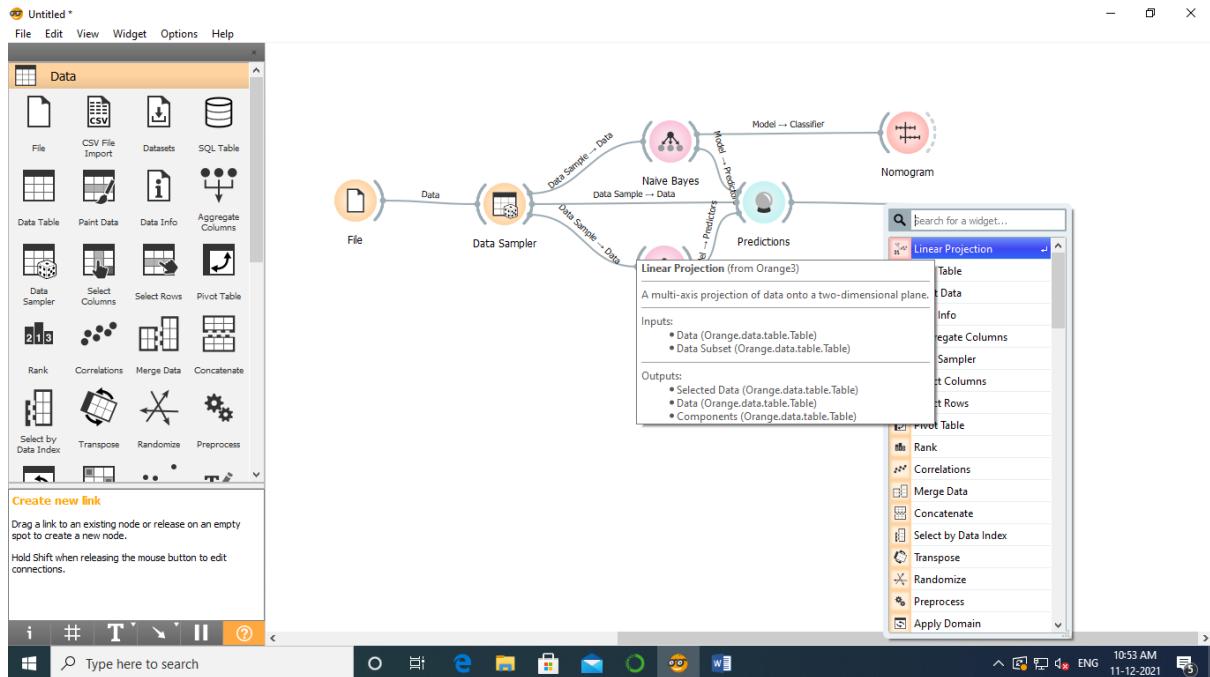
The 'Predictions' window is open, showing the results for the Naive Bayes and Tree models. The window has a tabbed interface with 'Naive Bayes' and 'Tree' tabs. The 'Naive Bayes' tab is active, displaying a table of probabilities for 14 input samples. The 'Tree' tab is also visible, showing a similar table. The 'Predictions' window also includes a 'Show probabilities for' dropdown menu with options: amphibian, bird, fish, insect, invertebrate, mammal, reptile. Below the tables is a 'Restore Original Order' button.

| 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 |

Step 9: Select Linear Projection and connect it with Predication

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Step 10: Double click on Linear projection

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