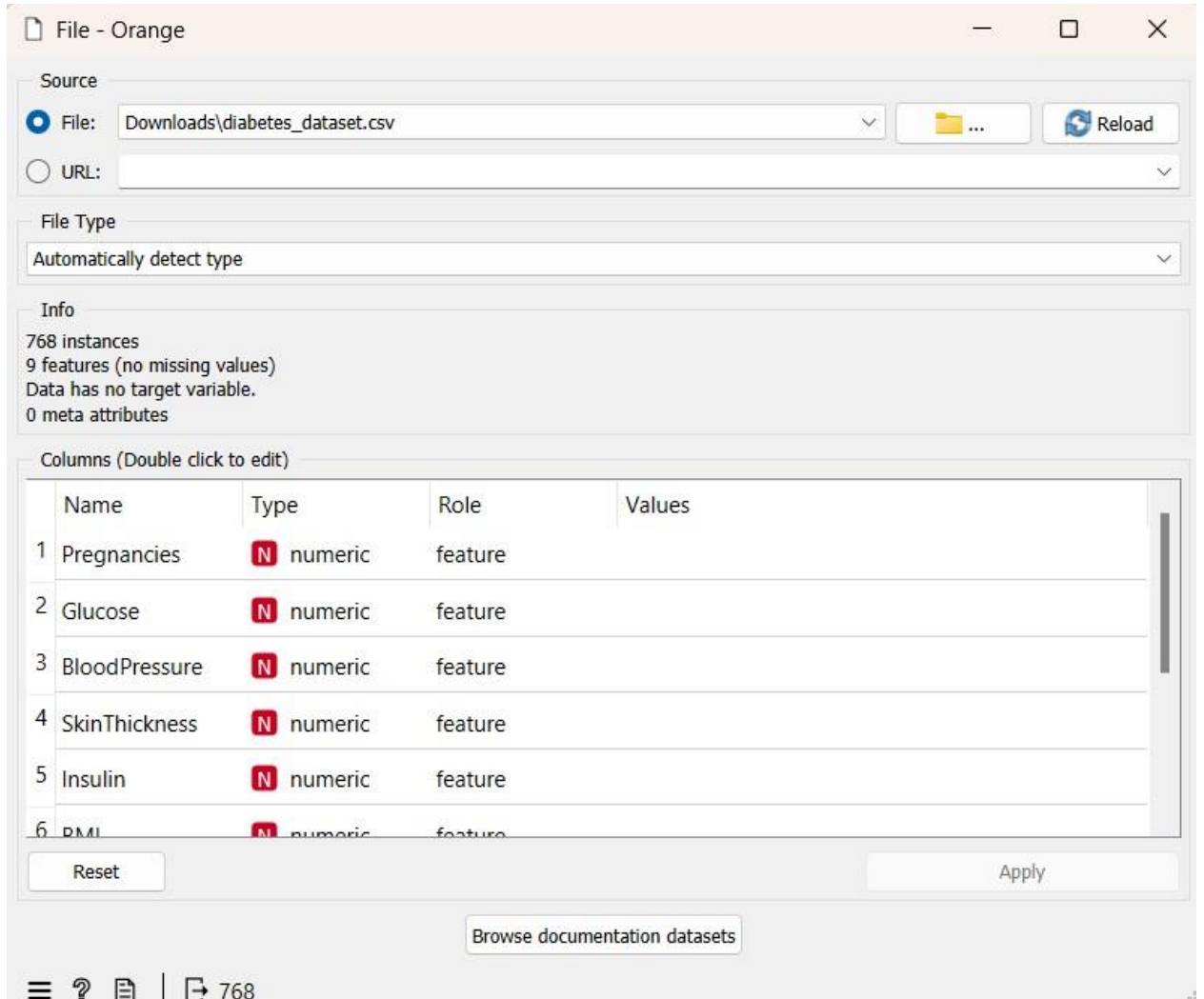


Nama : Nicholas Alvito Diandra

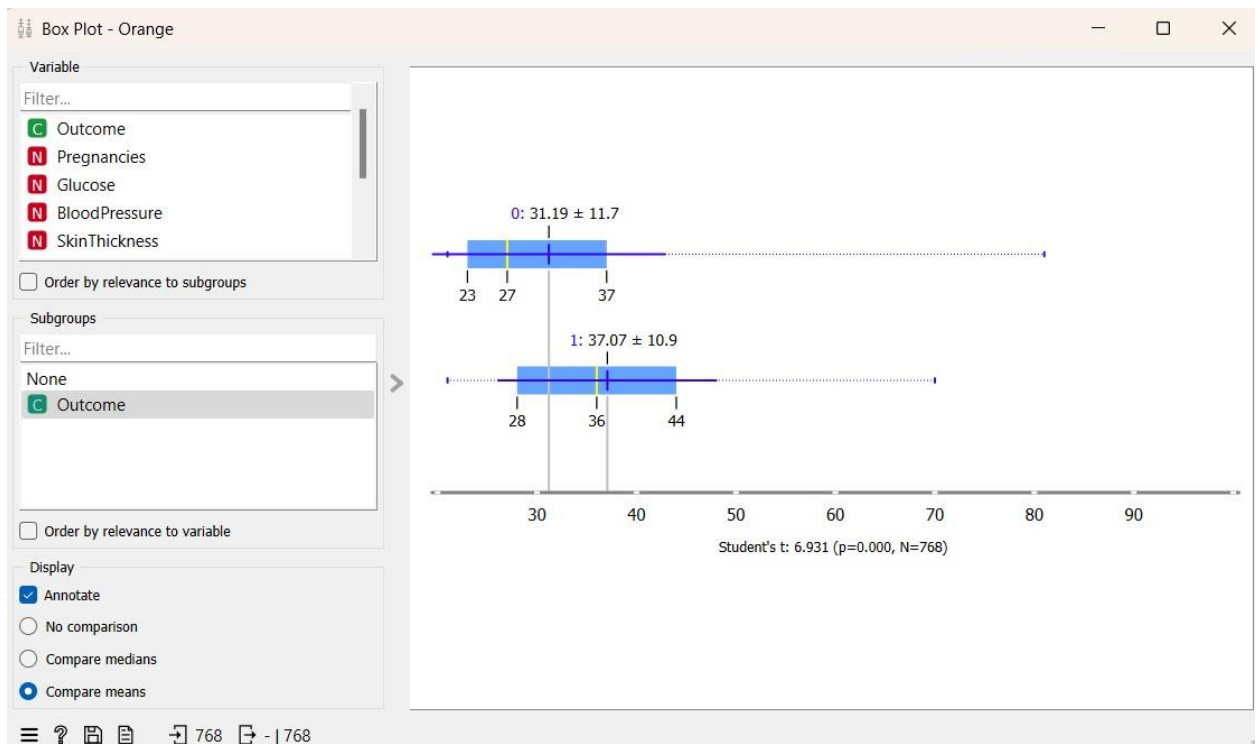
NIM : 1103210207

### Praktikal OWS Minggu 3

#### 1. MeLoad Dataset ke Orange

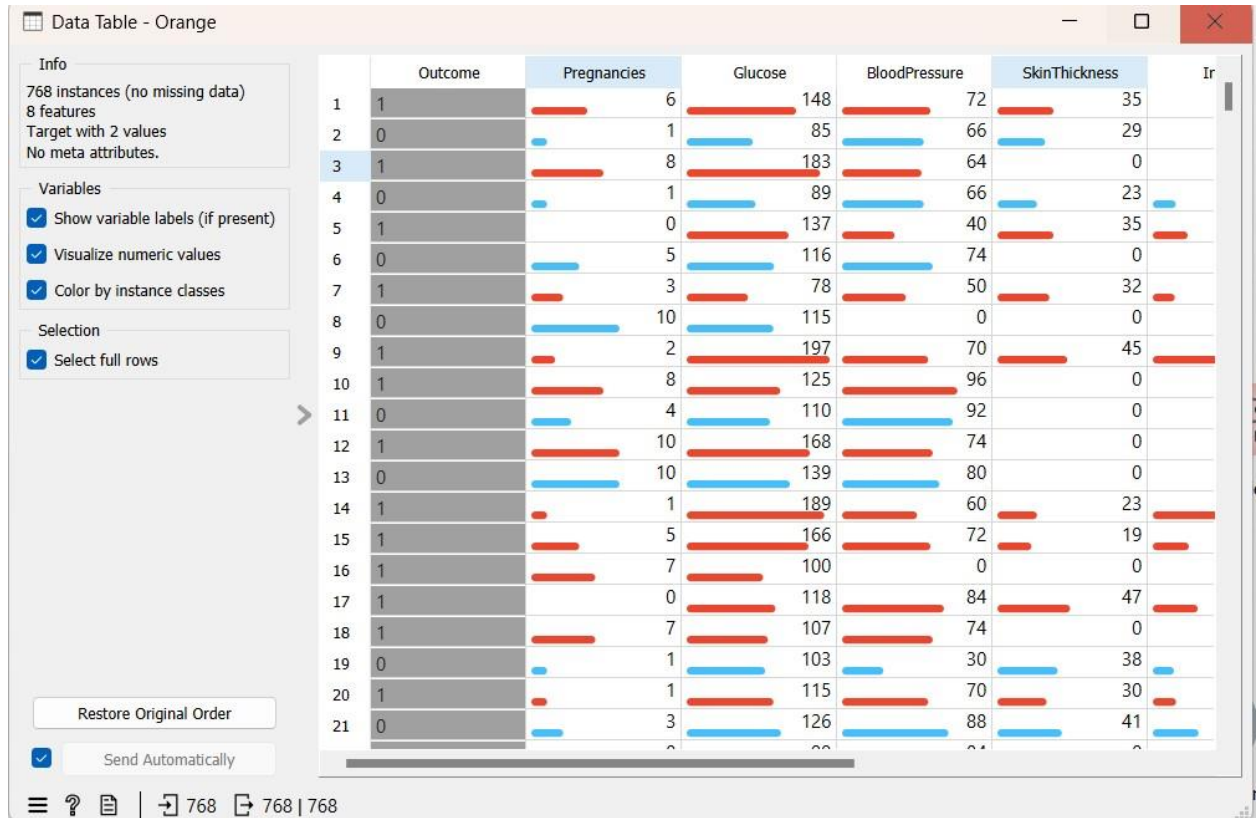


#### 2. Memvisualisasikan dataset menggunakan BoxPlot untuk memeriksa apakah ada outlier di dataset tersebut



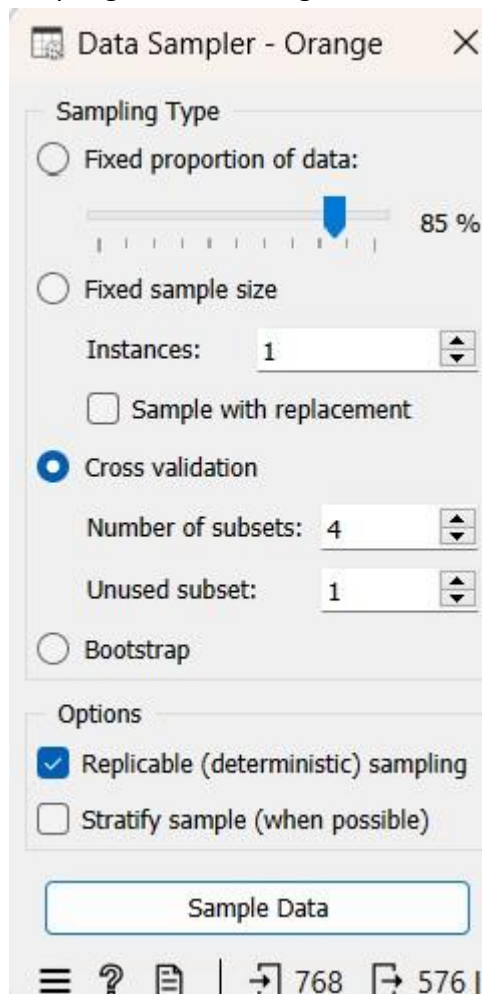
Memeriksa isi Data Table

3.



4.

Sampling data untuk digunakan model tree



Mengatur Parameter pada model Tree

5.

Tree - Orange

Name

Tree

Parameters

- ☒ Induce binary tree
- ☒ Min. number of instances in leaves: 30
- ☒ Do not split subsets smaller than: 30
- ☒ Limit the maximal tree depth to: 30

Classification

- ☒ Stop when majority reaches [%]: 95

☒ Apply Automatically

576 | -

Melihat evaluasi hasil dari model tree

6.

**Test and Score - Orange**

☒ Cross validation

Number of folds: 5

☒ Stratified

☐ Cross validation by feature

☐ Random sampling

Repeat train/test: 10

Training set size: 66 %

☒ Stratified

☐ Leave one out

☐ Test on train data

☐ Test on test data

Evaluation results for target (None, show average over classes)

Model	AUC	CA	F1	Prec	Recall	MCC
Tree	0.815	0.747	0.744	0.742	0.747	0.430

Compare models by: Area un

☐ Negligible diff.: 0.1

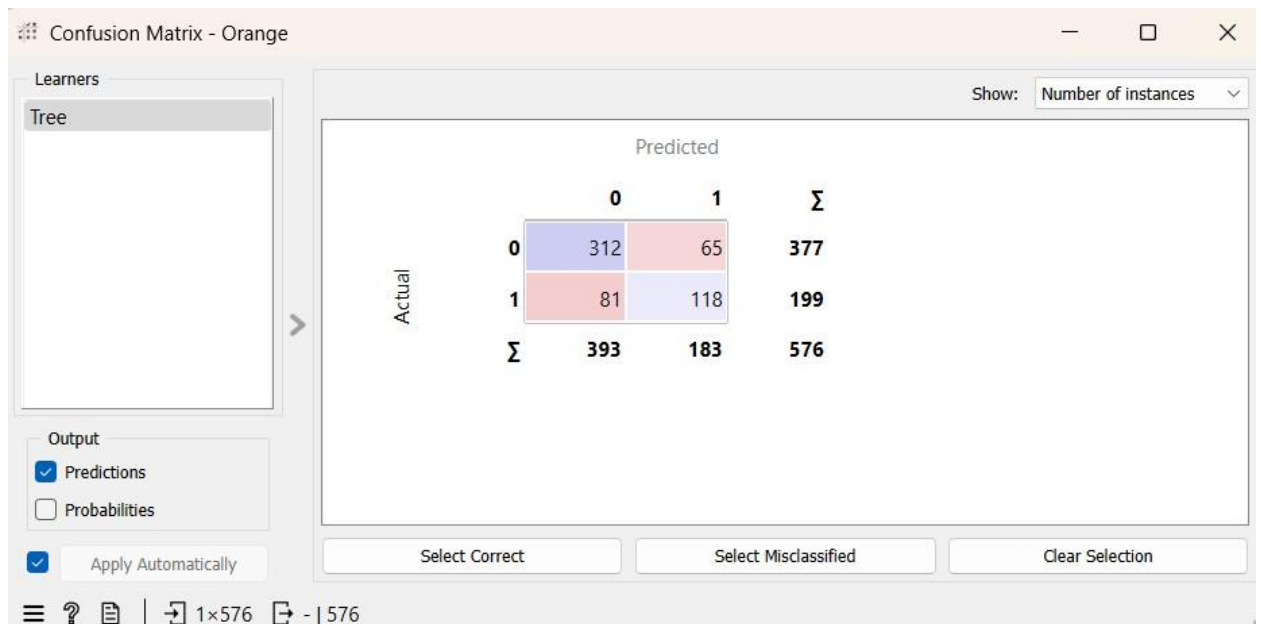
	Tree
Tree	

Table shows probabilities that the score for the model in the row is higher than that of the model in the column. Small numbers show the probability that the difference is negligible.

576 | - | 576 | 1x576

Melihat hasil model menggunakan confusion matrix

7.



8.

Sampling data untuk model KNN

The screenshot shows the 'Data Sampler (1) - Orange3' dialog box. It has a title bar with a close button. The 'Sampling Type' section contains four radio buttons: 'Fixed proportion of data:' (selected), 'Fixed sample size', 'Cross validation', and 'Bootstrap'. The 'Fixed proportion of data:' option has a slider set to 85% and a 'Fixed sample size' sub-section with 'Instances:' set to 1 and a 'Sample with replacement' checkbox. The 'Cross validation' option has 'Number of subsets:' set to 4 and 'Unused subset:' set to 1. The 'Options' section has a 'Replicable (deterministic) sampling' checkbox (checked) and a 'Stratify sample (when possible)' checkbox. A 'Sample Data' button is at the bottom. The status bar at the very bottom shows icons for menu, help, and document, followed by a separator and the counts '768' and '653'.

Data Sampler (1) - Orange3

Sampling Type

☒ Fixed proportion of data:

85 %

☐ Fixed sample size

Instances: 1

☐ Sample with replacement

☐ Cross validation

Number of subsets: 4

Unused subset: 1

☐ Bootstrap

Options

☒ Replicable (deterministic) sampling

☐ Stratify sample (when possible)

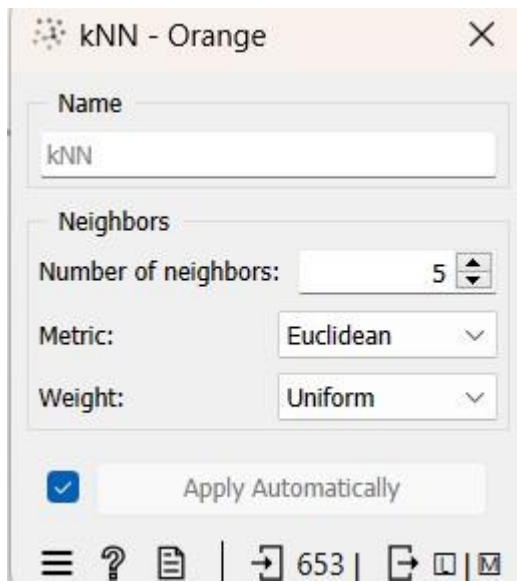
Sample Data

768 653

9. Set parameter untuk model KNN



9.

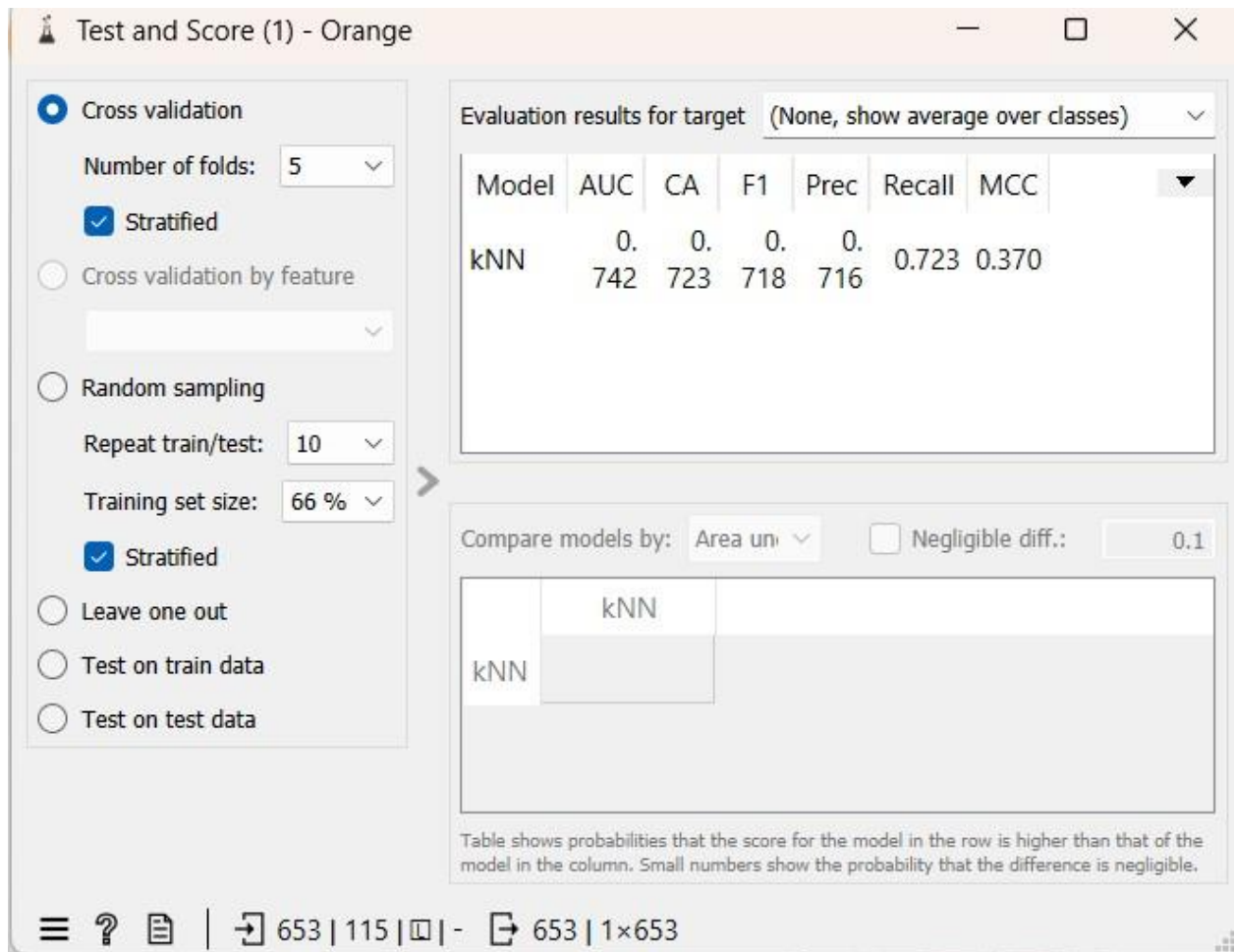


The image shows a software window titled "kNN - Orange" with a close button (X) in the top right corner. The window contains the following settings:

- Name:** A text field containing "kNN".
- Neighbors:**
  - Number of neighbors:** A numeric input field with the value "5" and a spinner control.
  - Metric:** A dropdown menu currently set to "Euclidean".
  - Weight:** A dropdown menu currently set to "Uniform".
- Apply Automatically:** A checkbox that is checked, with the text "Apply Automatically" next to it.

At the bottom of the window is a toolbar with icons for a menu, help, a document, a refresh/clear action, and a status indicator showing "653".

# 10. Melihat hasil test dan hasil evaluasi model KNN



# 11. Melihat hasil train test menggunakan confusion matrix

