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1. MeLoad Dataset ke Orange

File - Orange

Source

☒ File: Downloads\diabetes_dataset.csv

☐ URL:

...

Reload

File Type

Automatically detect type

Info

768 instances
9 features (no missing values)
Data has no target variable.
0 meta attributes

Columns (Double click to edit)

	Name	Type	Role	Values
1	Pregnancies	numeric	feature	
2	Glucose	numeric	feature	
3	BloodPressure	numeric	feature	
4	SkinThickness	numeric	feature	
5	Insulin	numeric	feature	
6	BMI	numeric	feature	

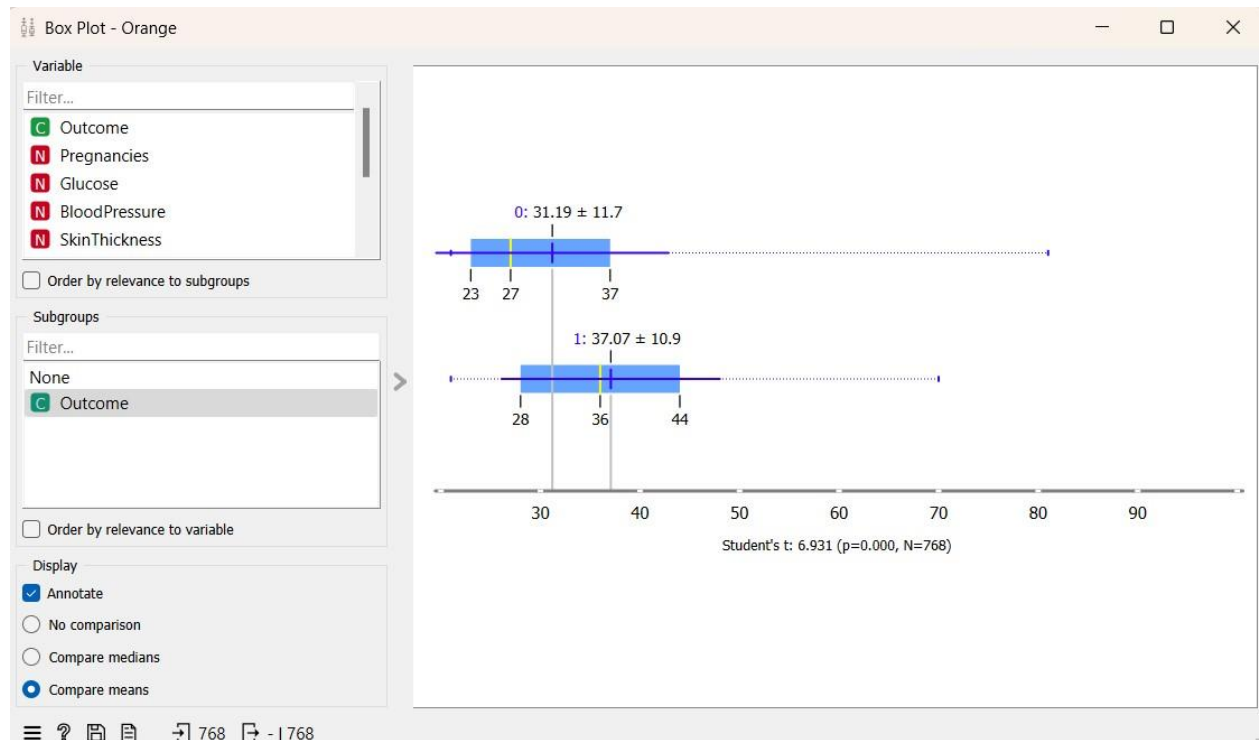
Reset

Apply

Browse documentation datasets

768

2. Memvisualisasikan dataset menggunakan BoxPlot untuk mendeteksi keberadaan outlier dalam dataset.



3. Memeriksa isi Data Table

Data Table - Orange

Info

768 instances (no missing data)

8 features

Target with 2 values

No meta attributes.

Variables

- ☒ Show variable labels (if present)
- ☒ Visualize numeric values
- ☒ Color by instance classes

Selection

- ☒ Select full rows

Restore Original Order

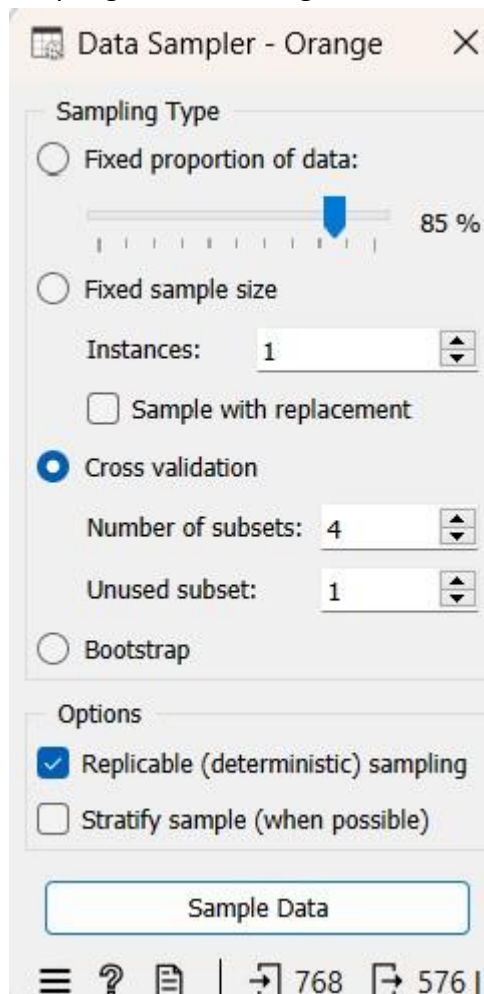
☒ Send Automatically

	Outcome	Pregnancies	Glucose	BloodPressure	SkinThickness	Ir
1	1	6	148	72	35	
2	0	1	85	66	29	
3	1	8	183	64	0	
4	0	1	89	66	23	
5	1	0	137	40	35	
6	0	5	116	74	0	
7	1	3	78	50	32	
8	0	10	115	0	0	
9	1	2	197	70	45	
10	1	8	125	96	0	
11	0	4	110	92	0	
12	1	10	168	74	0	
13	0	10	139	80	0	
14	1	1	189	60	23	
15	1	5	166	72	19	
16	1	7	100	0	0	
17	1	0	118	84	47	
18	1	7	107	74	0	
19	0	1	103	30	38	
20	1	1	115	70	30	
21	0	3	126	88	41	

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

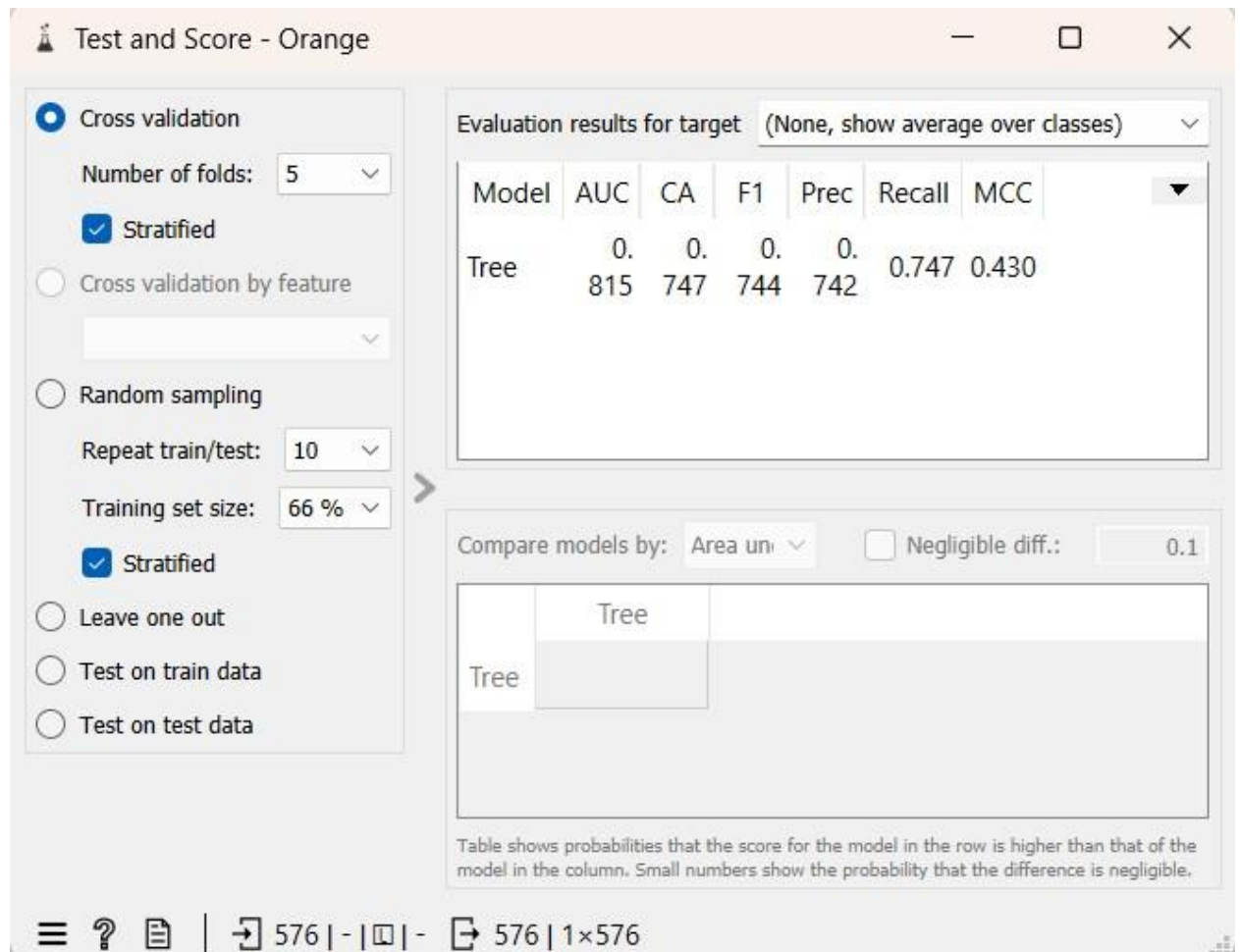
- ☒ Stop when majority reaches [%]: 95

☒ 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 under the curve

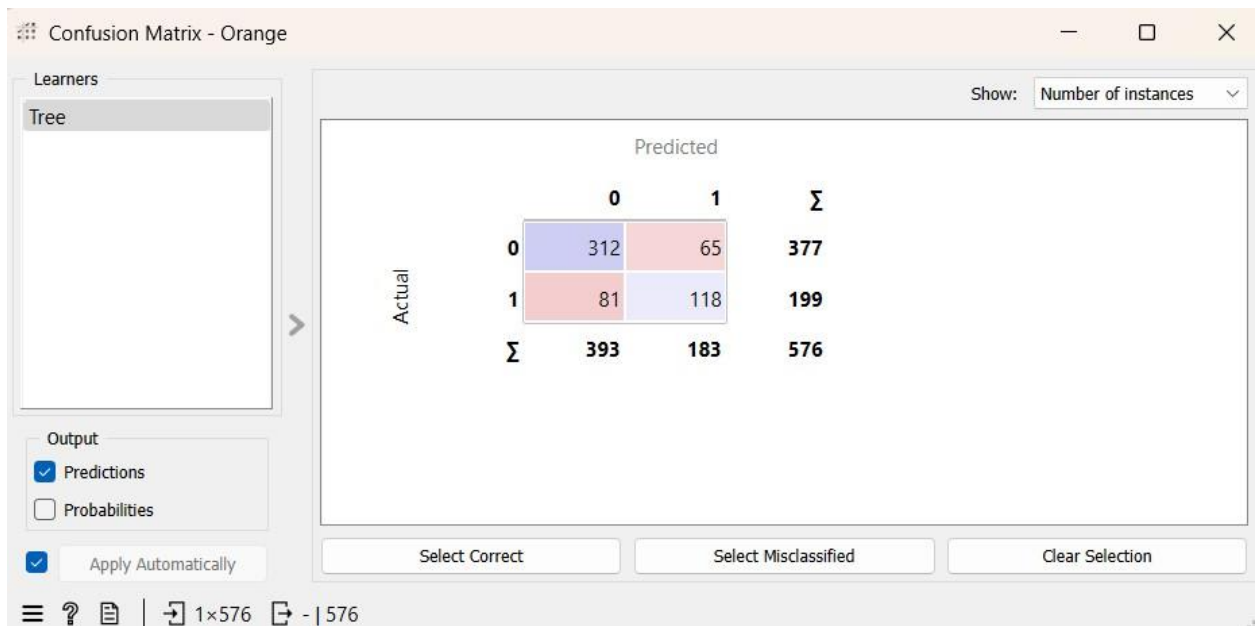
☐ Negligible diff.: 0.1

	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.

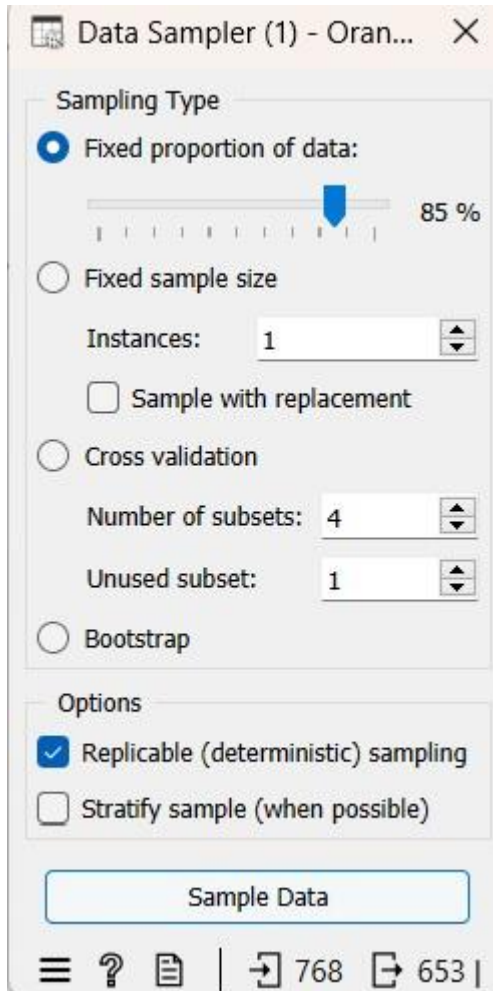
Melihat hasil model menggunakan confusion matrix

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 'Instances:' input field with the value 1. The 'Fixed sample size' option has a 'Sample with replacement' checkbox. The 'Cross validation' option has 'Number of subsets:' set to 4 and 'Unused subset:' set to 1. The 'Bootstrap' option is currently unselected. The 'Options' section has a 'Replicable (deterministic) sampling' checkbox (checked) and a 'Stratify sample (when possible)' checkbox (unchecked). At the bottom is a 'Sample Data' button. 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

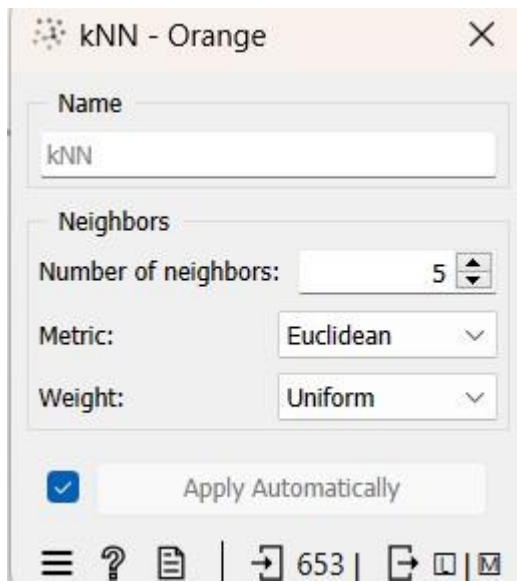
☐ Stratify sample (when possible)

Sample Data

768 653

9. Set parameter untuk model KNN

9.

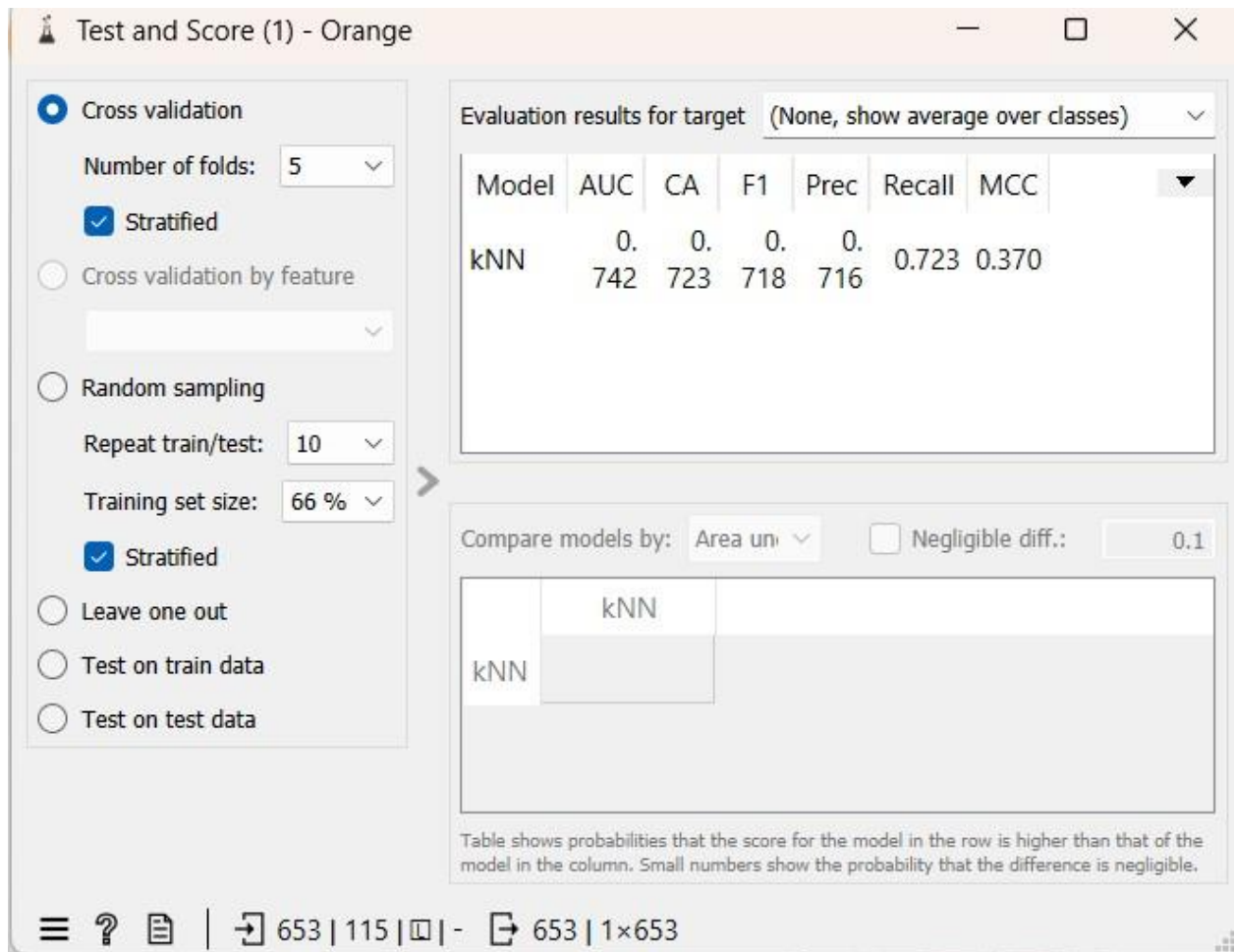


The image shows a screenshot of the 'kNN - Orange' widget interface. The window has a title bar with the text 'kNN - Orange' and a close button. The main area contains several settings:

- Name:** A text box containing 'kNN'.
- Neighbors:** A section containing:
 - 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, there is a toolbar with icons for menu, help, save, undo, redo, and a status bar showing '653'.

10. Melihat hasil test dan hasil evaluasi model KNN



11. Melihat hasil train test menggunakan confusion matrix

