

Nama : Az – Zahra Chikal E

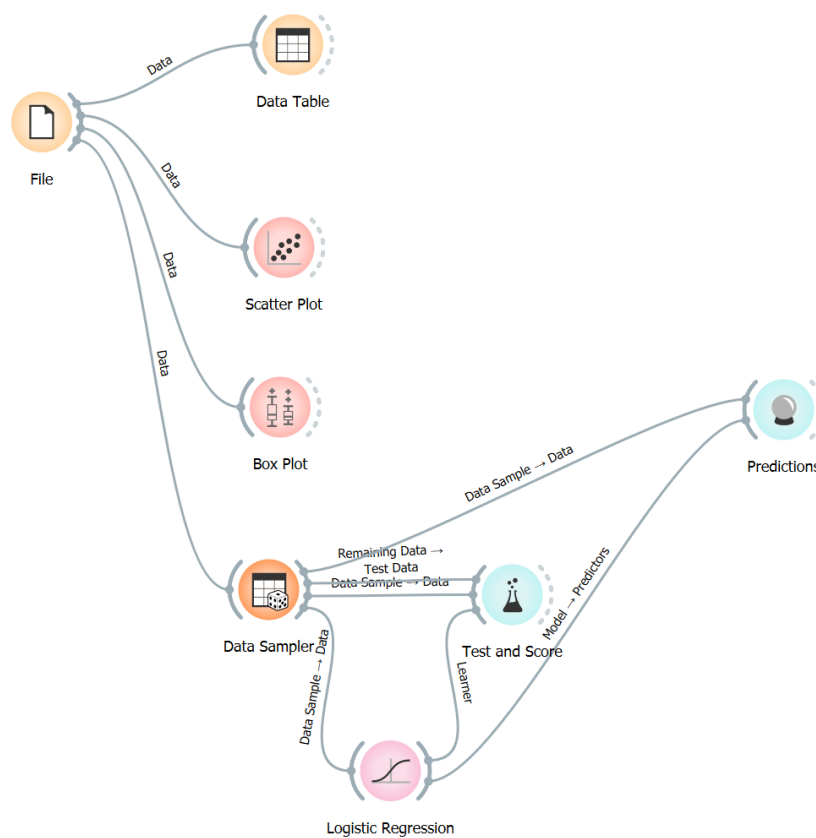
NIM : 1103213039

Kelas : TK-45-05

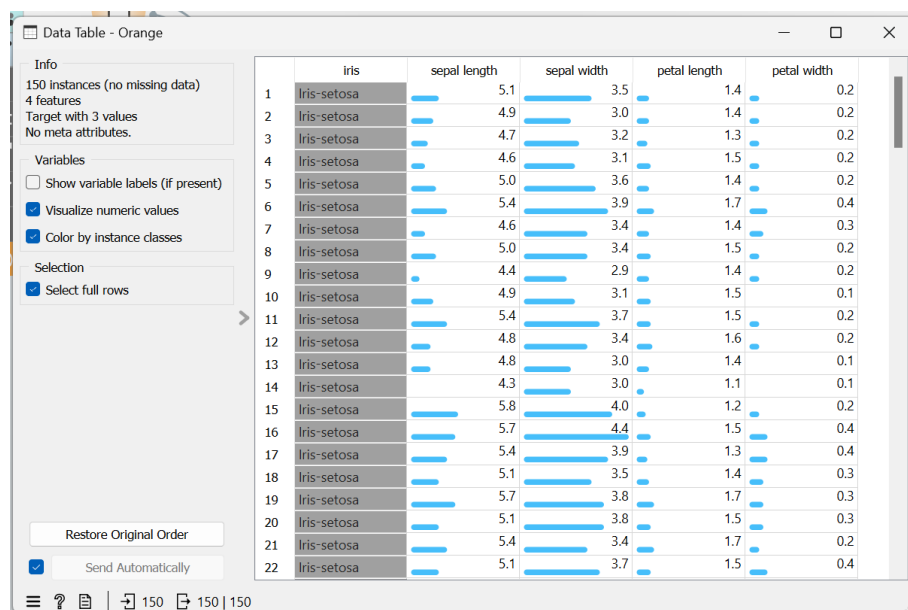
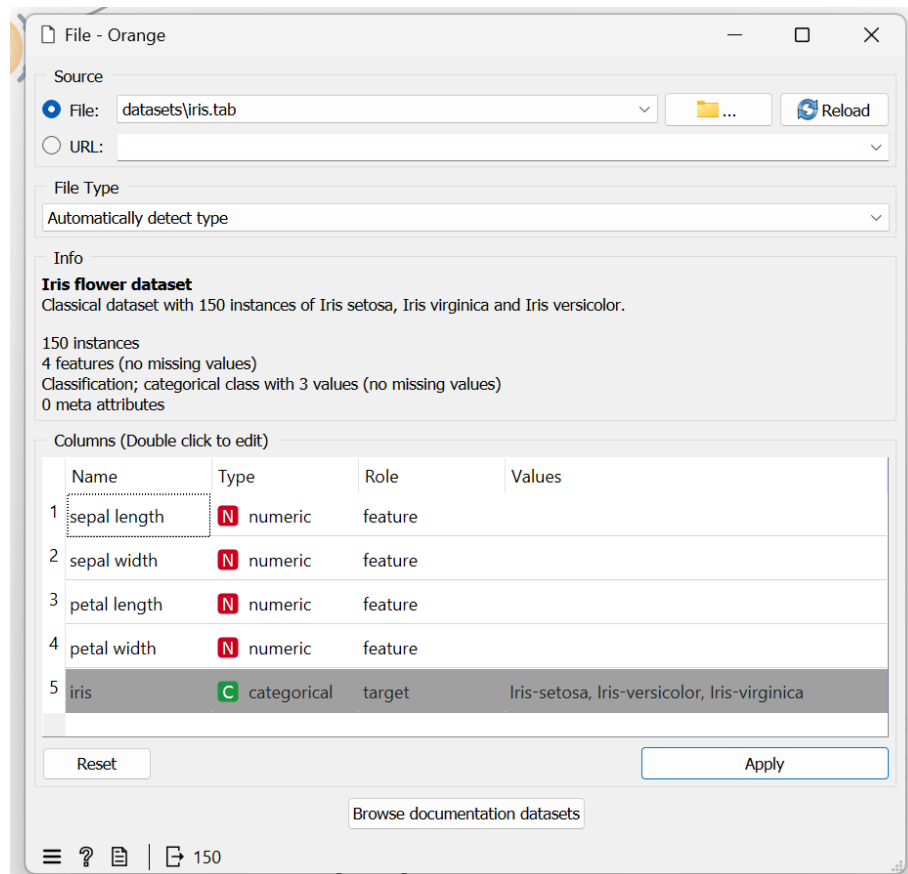
TUGAS MINGGU 2 MACHINE LEARNING

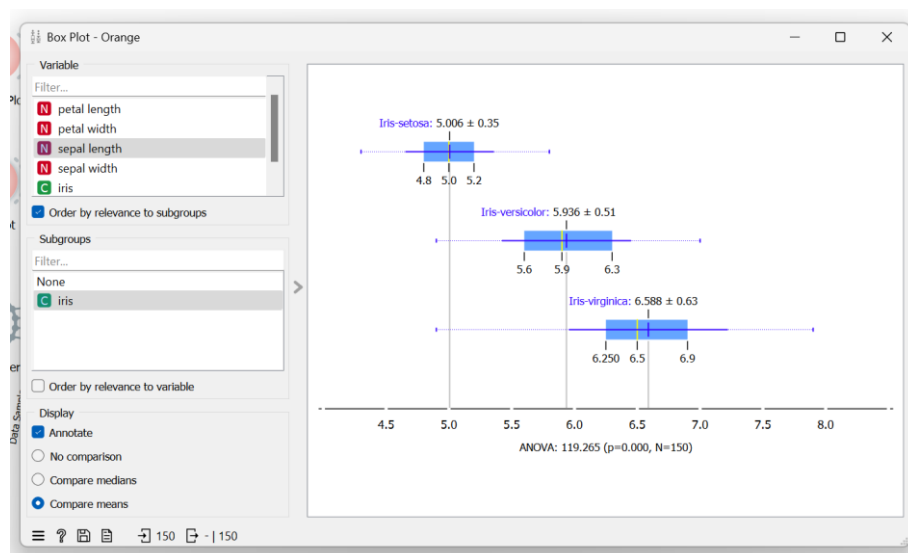
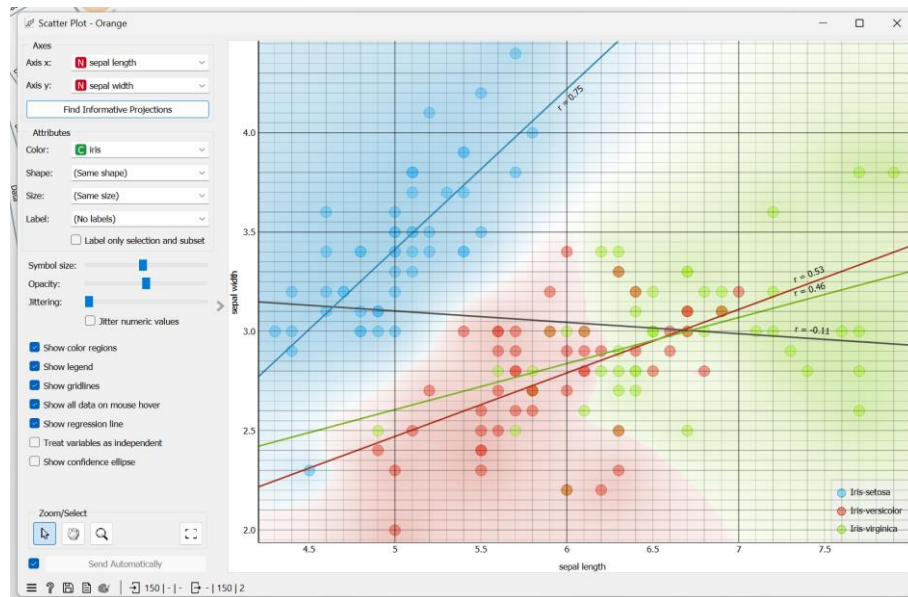
LOGISTIC REGRESISION DENGAN ORANGE DATA MINING

Berikut merupakan hasil data orange mining pada dataset IRIS.



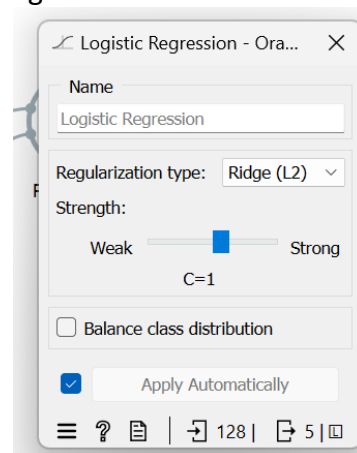
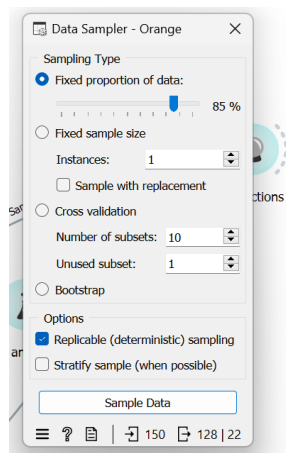
Pada file, kita pilih file yang dataset\Iris.tab, kemudian kita buat Iris menjadi target nya.





Pada data sampler, kita akan menggunakan 85%

Kemudian disini kita akan menggunakan logistic regression



Pada test and score dapat kita ketahui hasil AUC, Akurasi, F1, Precision, Recall, MCC

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
Logistic Regression	0.997	0.953	0.953	0.954	0.953	0.930

Compare models by: Area under ROC curve

☐ Negligible diff.: 0.1

Logistic Regression

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.

Predictions - Orange

Show probabilities for: Classes in data

☒ Show classification errors

	Logistic Regression	error	iris	sepal length	sepal width	petal length	petal width
1	0.00 - 0.86 - 0.13 - Iris-versicolor	0.139	Iris-versicolor	6.1	2.8	4.7	1.2
2	0.96 - 0.04 - 0.00 - Iris-setosa	0.043	Iris-setosa	5.7	1.8	1.7	0.3
3	0.00 - 0.00 - 1.00 - Iris-virginica	0.001	Iris-virginica	7.7	2.6	6.9	2.3
4	0.01 - 0.82 - 0.17 - Iris-versicolor	0.176	Iris-versicolor	6.0	2.9	4.5	1.5
5	0.00 - 0.75 - 0.25 - Iris-versicolor	0.251	Iris-versicolor	6.8	2.8	4.8	1.4
6	0.96 - 0.04 - 0.00 - Iris-setosa	0.035	Iris-setosa	5.4	1.4	1.5	0.4
7	0.00 - 0.01 - 0.00 - Iris-versicolor	0.004	Iris-versicolor	5.6	2.9	3.6	1.3
8	0.00 - 0.11 - 0.89 - Iris-virginica	0.115	Iris-virginica	6.9	3.1	5.1	2.3
9	0.00 - 0.79 - 0.20 - Iris-versicolor	0.206	Iris-versicolor	6.2	2.2	4.5	1.5
10	0.01 - 0.95 - 0.02 - Iris-versicolor	0.050	Iris-versicolor	5.8	2.7	3.9	1.2
11	0.00 - 0.23 - 0.77 - Iris-virginica	0.228	Iris-virginica	6.5	3.2	5.1	2.0
12	0.97 - 0.02 - 0.00 - Iris-setosa	0.027	Iris-setosa	4.8	1.0	1.4	0.1
13	0.98 - 0.02 - 0.00 - Iris-setosa	0.021	Iris-setosa	5.5	3.5	1.3	0.2
14	0.97 - 0.03 - 0.00 - Iris-setosa	0.032	Iris-setosa	4.9	3.1	1.5	0.1
15	0.96 - 0.02 - 0.00 - Iris-setosa	0.018	Iris-setosa	5.1	3.8	1.5	0.3
16	0.00 - 0.72 - 0.28 - Iris-versicolor	0.283	Iris-versicolor	6.3	3.3	4.7	1.6
17	0.00 - 0.02 - 0.00 - Iris-virginica	0.025	Iris-virginica	6.5	3.0	5.8	2.2
18	0.02 - 0.96 - 0.02 - Iris-versicolor	0.045	Iris-versicolor	5.6	2.5	3.9	1.1
19	0.01 - 0.88 - 0.11 - Iris-versicolor	0.119	Iris-versicolor	5.7	2.8	4.5	1.3
20	0.00 - 0.04 - 0.96 - Iris-virginica	0.038	Iris-virginica	6.4	2.8	5.6	2.2
21	0.97 - 0.03 - 0.00 - Iris-setosa	0.031	Iris-setosa	4.7	3.2	1.6	0.2
22	0.00 - 0.44 - 0.56 - Iris-virginica	0.429	Iris-virginica	6.1	3.0	4.9	1.8
23	0.97 - 0.03 - 0.00 - Iris-setosa	0.032	Iris-setosa	5.0	3.4	1.8	0.4
24	0.00 - 0.05 - 0.95 - Iris-virginica	0.050	Iris-virginica	6.4	2.8	5.6	2.1
25	0.00 - 0.01 - 0.99 - Iris-virginica	0.013	Iris-virginica	7.9	3.8	6.4	2.0
26	0.00 - 0.09 - 0.91 - Iris-virginica	0.086	Iris-virginica	6.7	3.0	5.2	2.3
27	0.00 - 0.00 - 1.00 - Iris-virginica	0.001	Iris-virginica	6.7	2.5	5.8	1.8
28	0.00 - 0.02 - 0.98 - Iris-virginica	0.016	Iris-virginica	6.8	3.2	5.9	2.3

Show performance scores

Target class: (Average over classes)

Model	AUC	CA	F1	Prec	Recall	MCC
Logistic Regression	0.998	0.969	0.969	0.969	0.969	0.953