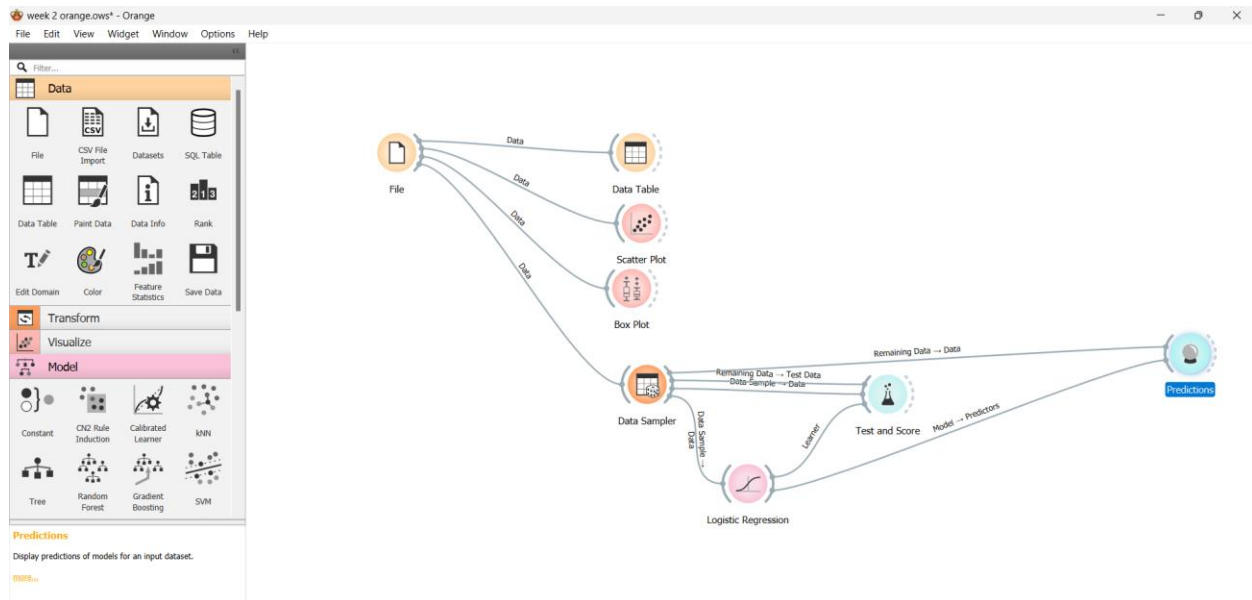


Nama : Rizki Ramadhan

NIM : 1103213091

Week 2



## 1. File

File - Orange

Source

☒ File: DATA SET\Iris.csv

☐ URL: D:/KULIAH/DATA SET/Iris.csv

File Type

Automatically detect type

Info

150 instances  
6 features (no missing values)  
Data has no target variable.  
0 meta attributes

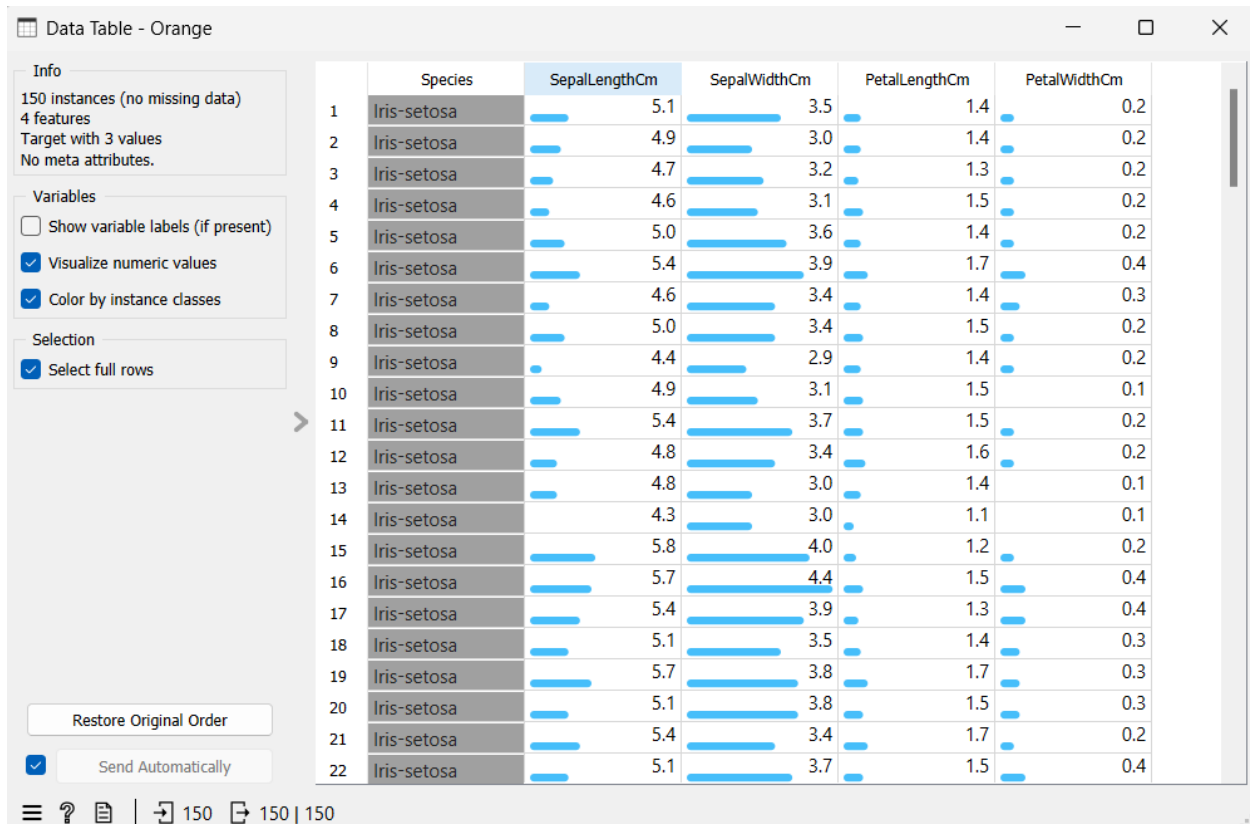
Columns (Double click to edit)

	Name	Type	Role	Values
1	Id	<b>N</b> numeric	<b>skip</b>	
2	SepalLengthCm	<b>N</b> numeric	feature	
3	SepalWidthCm	<b>N</b> numeric	feature	
4	PetalLengthCm	<b>N</b> numeric	feature	
5	PetalWidthCm	<b>N</b> numeric	feature	
6	<b>Species</b>	<b>C</b> categorical	<b>target</b>	Iris-setosa, Iris-versicolor, Iris-virginica

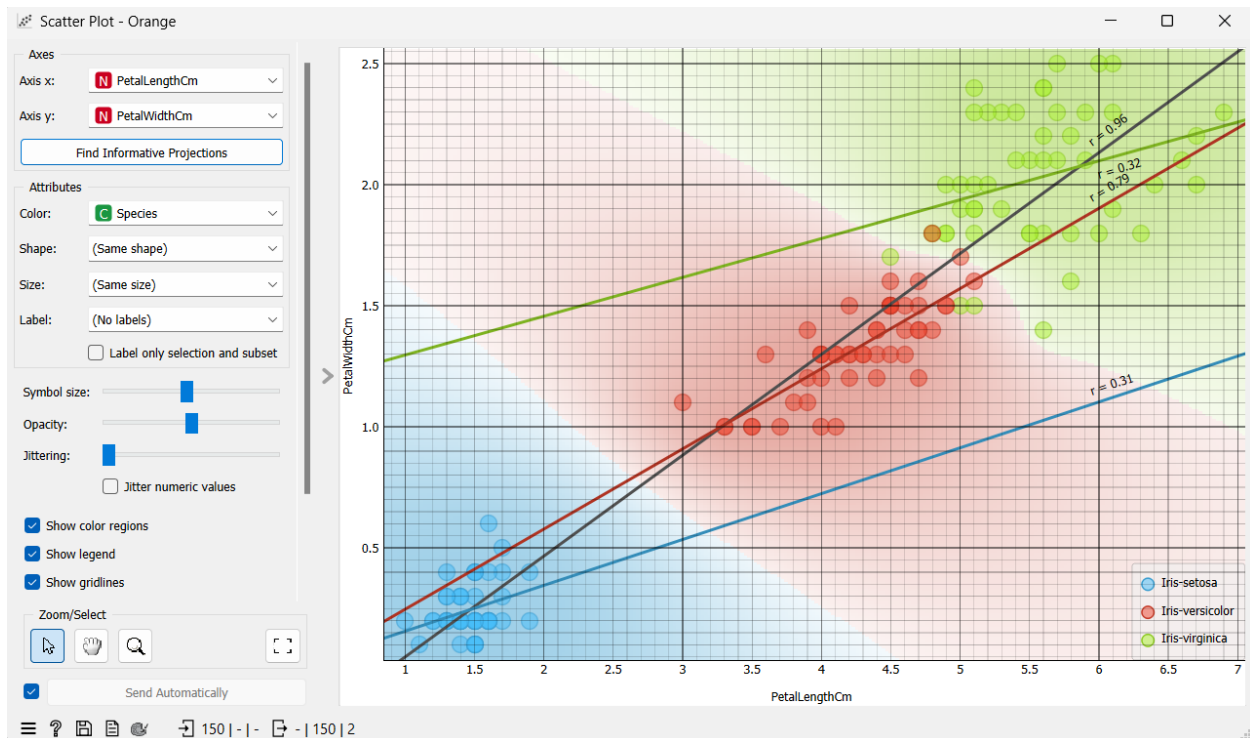
150

Species dijadikan target pada dataset tersebut

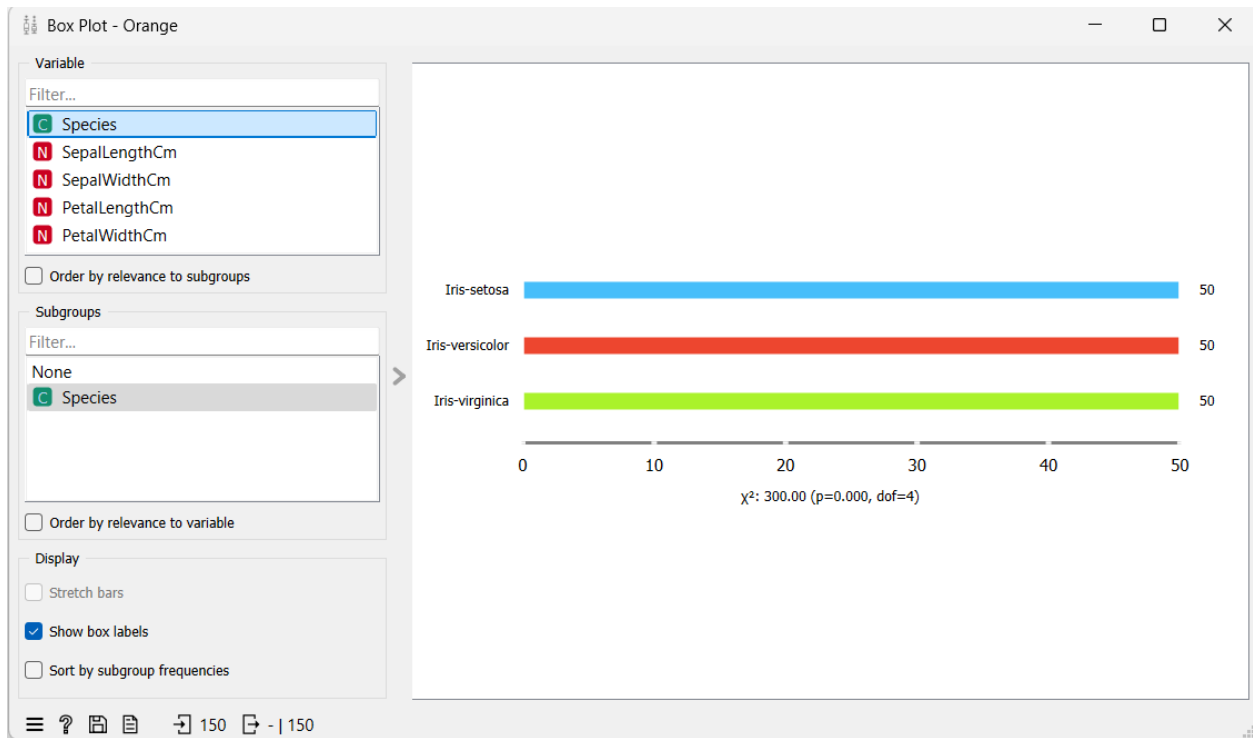
## 2. Data Table



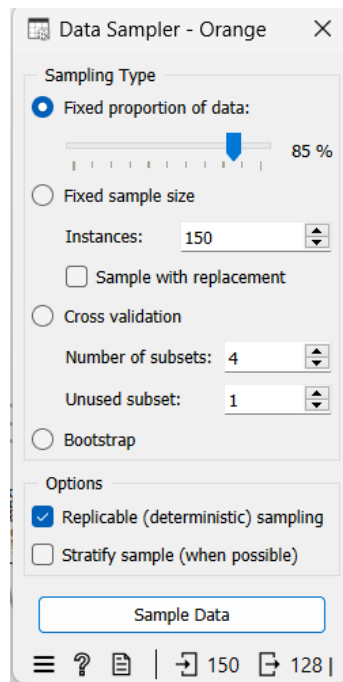
### 3. Scatter Plot



#### 4. Box Plot



#### 5. Data Sampler



Kita menggunakan Fixed proportion of data dengan 85%

## 6. Logistic Regression

Logistic Regression - Ora... X

Name  
Logistic Regression

Regularization type: Ridge (L2) v

Strength:  
Weak Strong  
C=1

☐ Balance class distribution

☒ Apply Automatically

≡ ? | 128 | 5 |

## 7. Test and Score

## 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

	Logistic ...	
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.

## 8. Predictions

Predictions - Orange

Show probabilities for: Classes in data ☒ Show classification errors

	Logistic Regression	error	Species	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm
1	0.98 : 0.02 : 0.00 → Iris-setosa	0.020	Iris-setosa	5.1	3.7	1.5	0.4
2	0.16 : 0.84 : 0.00 → Iris-versicolor	0.160	Iris-versicolor	4.9	2.4	3.3	1.0
3	0.00 : 0.02 : 0.98 → Iris-virginica	0.016	Iris-virginica	6.7	3.3	5.7	2.5
4	0.00 : 0.12 : 0.88 → Iris-virginica	0.122	Iris-virginica	7.2	3.0	5.8	1.6
5	0.97 : 0.03 : 0.00 → Iris-setosa	0.032	Iris-setosa	4.9	3.1	1.5	0.1
6	0.00 : 0.03 : 0.97 → Iris-virginica	0.025	Iris-virginica	6.7	3.1	5.6	2.4
7	0.97 : 0.03 : 0.00 → Iris-setosa	0.029	Iris-setosa	4.9	3.0	1.4	0.2
8	0.00 : 0.66 : 0.34 → Iris-versicolor	0.339	Iris-versicolor	6.9	3.1	4.9	1.5
9	0.00 : 0.03 : 0.97 → Iris-virginica	0.026	Iris-virginica	7.4	2.8	6.1	1.9
10	0.00 : 0.11 : 0.89 → Iris-virginica	0.109	Iris-virginica	6.3	2.9	5.6	1.8
11	0.02 : 0.94 : 0.04 → Iris-versicolor	0.064	Iris-versicolor	5.7	2.8	4.1	1.3
12	0.00 : 0.14 : 0.86 → Iris-virginica	0.143	Iris-virginica	6.5	3.0	5.5	1.8
13	0.00 : 0.90 : 0.10 → Iris-versicolor	0.102	Iris-versicolor	6.3	2.3	4.4	1.3
14	0.01 : 0.93 : 0.06 → Iris-versicolor	0.072	Iris-versicolor	6.4	2.9	4.3	1.3
15	0.00 : 0.29 : 0.71 → Iris-virginica	0.289	Iris-virginica	5.6	2.8	4.9	2.0
16	0.00 : 0.31 : 0.69 → Iris-virginica	0.313	Iris-virginica	5.9	3.0	5.1	1.8
17	0.95 : 0.05 : 0.00 → Iris-setosa	0.053	Iris-setosa	5.4	3.4	1.7	0.2
18	0.02 : 0.95 : 0.03 → Iris-versicolor	0.052	Iris-versicolor	6.1	2.8	4.0	1.3
19	0.01 : 0.69 : 0.31 → Iris-versicolor	0.695	Iris-virginica	4.9	2.5	4.5	1.7
20	0.99 : 0.01 : 0.00 → Iris-setosa	0.012	Iris-setosa	5.8	4.0	1.2	0.2
21	0.02 : 0.95 : 0.03 → Iris-versicolor	0.048	Iris-versicolor	5.8	2.6	4.0	1.2
22	0.00 : 0.03 : 0.97 → Iris-virginica	0.026	Iris-virginica	7.1	3.0	5.9	2.1

☒ Show performance scores Target class: (Average over classes)

Model	AUC	CA	F1	Prec	Recall	MCC
Logistic Regression	0.994	0.955	0.955	0.960	0.955	0.933

22 | 22 | 1x22