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**Week 2 Orange Data**

File - Orange

Source

File: Dataset\Iris.csv ... Reload

URL: ...

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	N numeric	feature	
2	SepalLengthCm	N numeric	feature	
3	SepalWidthCm	N numeric	feature	
4	PetalLengthCm	N numeric	feature	
5	PetalWidthCm	N numeric	feature	
6	Iris	C categorical	target	Iris-setosa, Iris-versicolor, Iris-virginica

Reset Apply

[Browse documentation datasets](#)

150

Data Table - Orange

Info

150 instances (no missing data)  
5 features  
Target with 3 values  
No meta attributes.

Variables

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

Selection

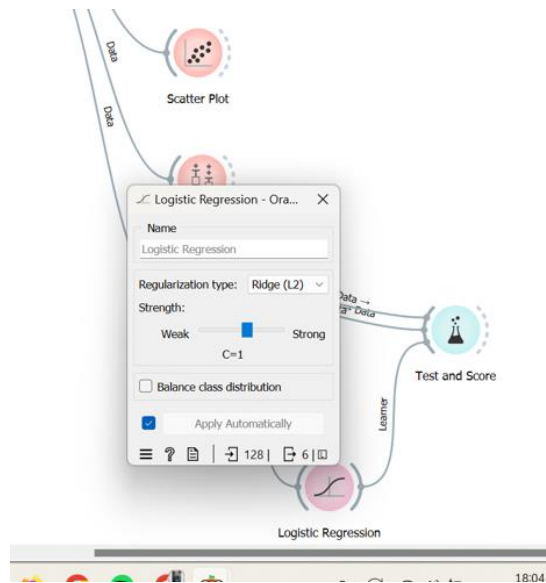
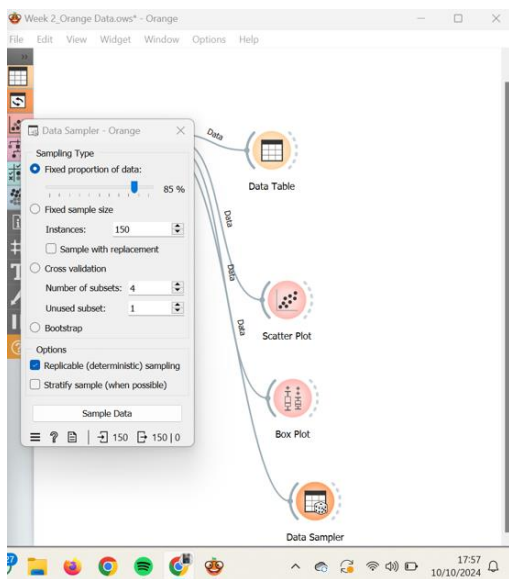
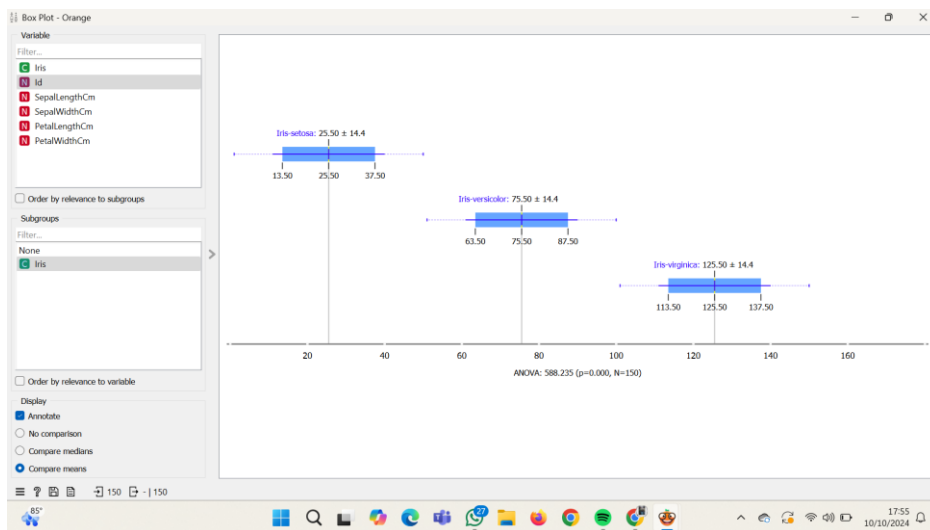
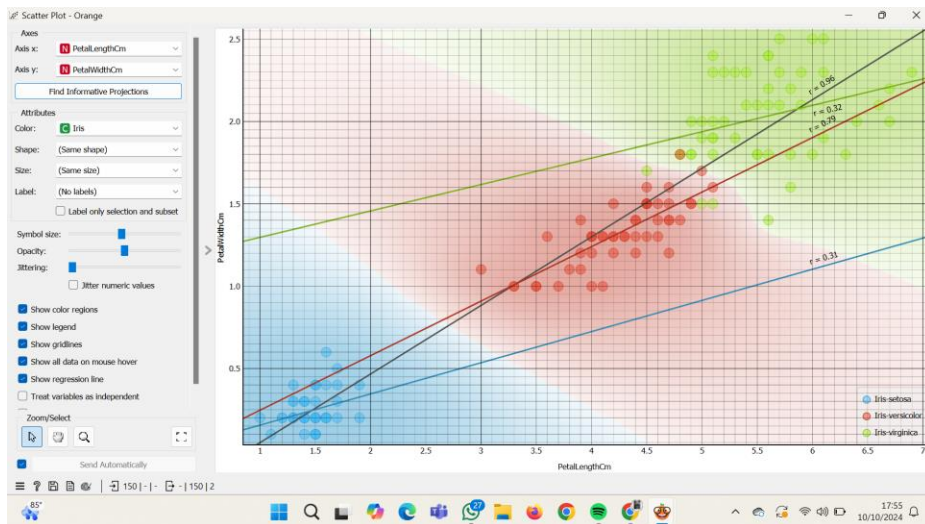
- Select full rows

Restore Original Order Send Automatically

	Species	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm
1	Iris-setosa	1	5.1	3.5	1.4	0.2
2	Iris-setosa	2	4.9	3.0	1.4	0.2
3	Iris-setosa	3	4.7	3.2	1.3	0.2
4	Iris-setosa	4	4.6	3.1	1.5	0.2
5	Iris-setosa	5	5.0	3.6	1.4	0.2
6	Iris-setosa	6	5.4	3.9	1.7	0.4
7	Iris-setosa	7	4.6	3.4	1.4	0.3
8	Iris-setosa	8	5.0	3.4	1.5	0.2
9	Iris-setosa	9	4.4	2.9	1.4	0.2
10	Iris-setosa	10	4.9	3.1	1.5	0.1
11	Iris-setosa	11	5.4	3.7	1.5	0.2
12	Iris-setosa	12	4.8	3.4	1.6	0.2
13	Iris-setosa	13	4.8	3.0	1.4	0.1
14	Iris-setosa	14	4.3	3.0	1.1	0.1
15	Iris-setosa	15	5.8	4.0	1.2	0.2
16	Iris-setosa	16	5.7	4.4	1.5	0.4
17	Iris-setosa	17	5.4	3.9	1.3	0.4
18	Iris-setosa	18	5.1	3.5	1.4	0.3
19	Iris-setosa	19	5.7	3.8	1.7	0.3
20	Iris-setosa	20	5.1	3.8	1.5	0.3
21	Iris-setosa	21	5.4	3.4	1.7	0.2
22	Iris-setosa	22	5.1	3.7	1.5	0.4
23	Iris-setosa	23	4.6	3.6	1.0	0.2
24	Iris-setosa	24	5.1	3.3	1.7	0.5
25	Iris-setosa	25	4.8	3.4	1.9	0.2
26	Iris-setosa	26	5.0	3.0	1.6	0.2
27	Iris-setosa	27	5.0	3.4	1.6	0.4
28	Iris-setosa	28	5.2	3.5	1.5	0.2

150 | 150

17:46 10/10/2024



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	1.000	1.000	1.000	1.000	1.000	1.000

Compare models by: Area under ROC curve

Negligible diff.: 0.1

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.

Predictions - Orange

Show probabilities for

Classes in data

Show classification errors

Reset Original Data

Iris	logistic Regression	Regression (Iris-v)	Regression (Iris-v)	Fold	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm
Iris-setosa	Iris-setosa	2.46101e-09	6.64727e-45	1	19	5.7	3.8	1.7	0.3
Iris-setosa	Iris-setosa	0.999996	4.44326e-06	4.19817e-36	1	32	5.4	3.4	1.5
Iris-versicolor	Iris-versicolor	0.0053429	0.994646	2.84216e-19	1	57	6.3	3.3	4.7
Iris-versicolor	Iris-versicolor	0.0134225	0.986577	7.90315e-20	1	56	5.7	2.8	4.5
Iris-virginica	Iris-virginica	2.60117e-33	7.88005e-13	1	128	6.1	3.0	4.9	
Iris-virginica	Iris-virginica	1.89422e-34	2.13261e-13	1	129	6.4	2.8	5.6	
Iris-setosa	Iris-setosa	0.987227	0.0127726	1.12985e-26	1	46	4.8	3.0	1.4
Iris-versicolor	Iris-versicolor	2.09226e-05	0.999973	1.68845e-15	1	66	6.7	3.1	4.4
Iris-versicolor	Iris-versicolor	0.0995109	0.900489	1.5583e-21	1	52	6.4	3.2	4.5
Iris-virginica	Iris-virginica	1.02772e-37	2.18652e-15	1	134	6.3	2.8	5.1	
Iris-setosa	Iris-setosa	0.999988	0.000411605	1.04254e-30	1	40	5.1	3.4	1.5
Iris-virginica	Iris-virginica	8.44903e-41	1.47659e-17	1	139	6.0	3.0	4.8	
Iris-versicolor	Iris-versicolor	0.00042364	0.999578	5.2564e-17	1	63	6.0	2.2	4.0
Iris-versicolor	Iris-versicolor	7.66172e-12	0.999918	0.00093429	1	94	5.9	2.3	3.3
Iris-virginica	Iris-virginica	1.36688e-22	5.62977e-06	0.999994	1	112	6.4	2.7	5.3
Iris-versicolor	Iris-versicolor	1.50738e-06	0.999998	3.41195e-13	1	71	5.9	3.2	4.8
Iris-versicolor	Iris-versicolor	3.96421e-11	0.999972	2.79088e-05	1	90	5.5	2.5	4.0
Iris-setosa	Iris-setosa	1	3.7902e-12	3.57483e-52	1	9	4.4	2.9	1.4
Iris-setosa	Iris-setosa	1	5.34579e-11	6.38381e-49	1	14	4.3	3.0	1.1
Iris-virginica	Iris-virginica	1.16188e-32	3.63584e-12	1	126	7.2	3.2	6.0	1.8
Iris-setosa	Iris-setosa	0.99994	0.000159864	1.28232e-31	1	39	4.4	3.0	1.3
Iris-setosa	Iris-setosa	1	1.10238e-13	2.7568e-56	1	3	4.7	3.2	1.3
Iris-virginica	Iris-virginica	2.02189e-25	8.24551e-08	1	116	6.4	3.2	5.3	2.3
Iris-virginica	Iris-virginica	2.63828e-47	1.58332e-21	1	148	6.5	3.0	5.2	2.0

Show performance scores

Target class: (Average over classes)

1281

1281

1804

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Predictions - Orange

Show probabilities for Classes in data

Show classification errors

Logistic Regression	error	Iris	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm
0.00:1.00:0.00 - Iris-versicolor	0.000	Iris-versicolor	74	6.1	2.8	4.7	1.2
1.00:0.00:0.00 - Iris-setosa	0.000	Iris-setosa	19	5.7	3.8	1.7	0.3
0.00:0.00:1.00 - Iris-virginica	0.000	Iris-virginica	119	7.7	2.6	6.9	2.3
0.00:1.00:0.00 - Iris-versicolor	0.000	Iris-versicolor	79	6.0	2.9	4.5	1.5
0.00:1.00:0.00 - Iris-versicolor	0.000	Iris-versicolor	77	6.8	2.8	4.8	1.4
1.00:0.00:0.00 - Iris-setosa	0.000	Iris-setosa	32	5.4	3.4	1.5	0.4
0.00:1.00:0.00 - Iris-versicolor	0.000	Iris-versicolor	65	5.8	2.9	3.6	1.3
0.00:0.00:1.00 - Iris-virginica	0.000	Iris-virginica	142	6.9	3.1	5.1	2.3
0.00:1.00:0.00 - Iris-versicolor	0.000	Iris-versicolor	69	6.2	2.2	4.5	1.5
0.00:1.00:0.00 - Iris-versicolor	0.000	Iris-versicolor	83	5.8	2.7	3.9	1.2
0.00:0.00:1.00 - Iris-virginica	0.000	Iris-virginica	111	6.5	3.2	5.1	2.0
1.00:0.00:0.00 - Iris-setosa	0.000	Iris-setosa	13	4.8	3.0	1.4	0.1
1.00:0.00:0.00 - Iris-setosa	0.000	Iris-setosa	37	5.5	3.5	1.3	0.2
1.00:0.00:0.00 - Iris-setosa	0.000	Iris-setosa	10	4.9	3.1	1.5	0.1
1.00:0.00:0.00 - Iris-setosa	0.000	Iris-setosa	20	5.1	3.8	1.5	0.3
0.00:1.00:0.00 - Iris-versicolor	0.003	Iris-versicolor	57	6.3	3.3	4.7	1.6
0.00:1.00:0.00 - Iris-virginica	0.004	Iris-virginica	105	6.5	3.0	5.8	2.2
0.00:1.00:0.00 - Iris-versicolor	0.000	Iris-versicolor	70	5.6	2.5	3.9	1.1
0.01:0.99:0.00 - Iris-versicolor	0.007	Iris-versicolor	56	5.7	2.8	4.5	1.3
0.00:0.00:1.00 - Iris-virginica	0.000	Iris-virginica	133	6.4	2.8	5.6	2.2
1.00:0.00:0.00 - Iris-setosa	0.000	Iris-setosa	30	4.7	3.2	1.6	0.2
0.00:0.00:1.00 - Iris-virginica	0.000	Iris-virginica	128	6.1	3.0	4.9	1.8

Show performance scores

Target class: (Average over classes)

Model	AUC	CA	F1	Prec	Recall	MCC
Logistic Regression	1.000	1.000	1.000	1.000	1.000	1.000