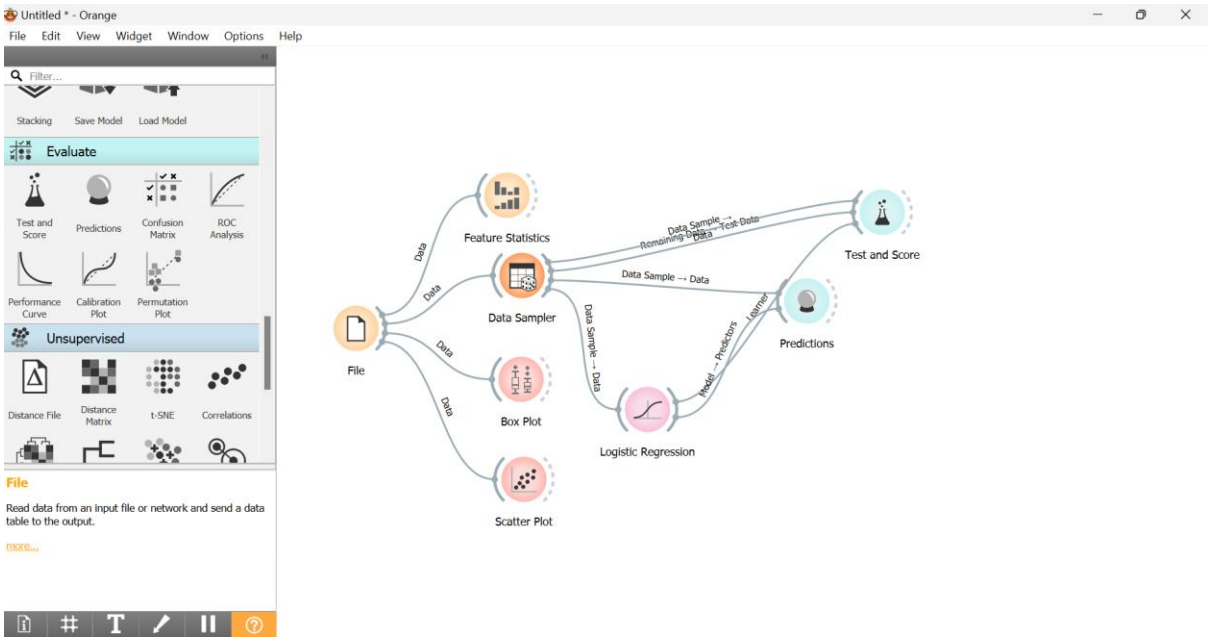
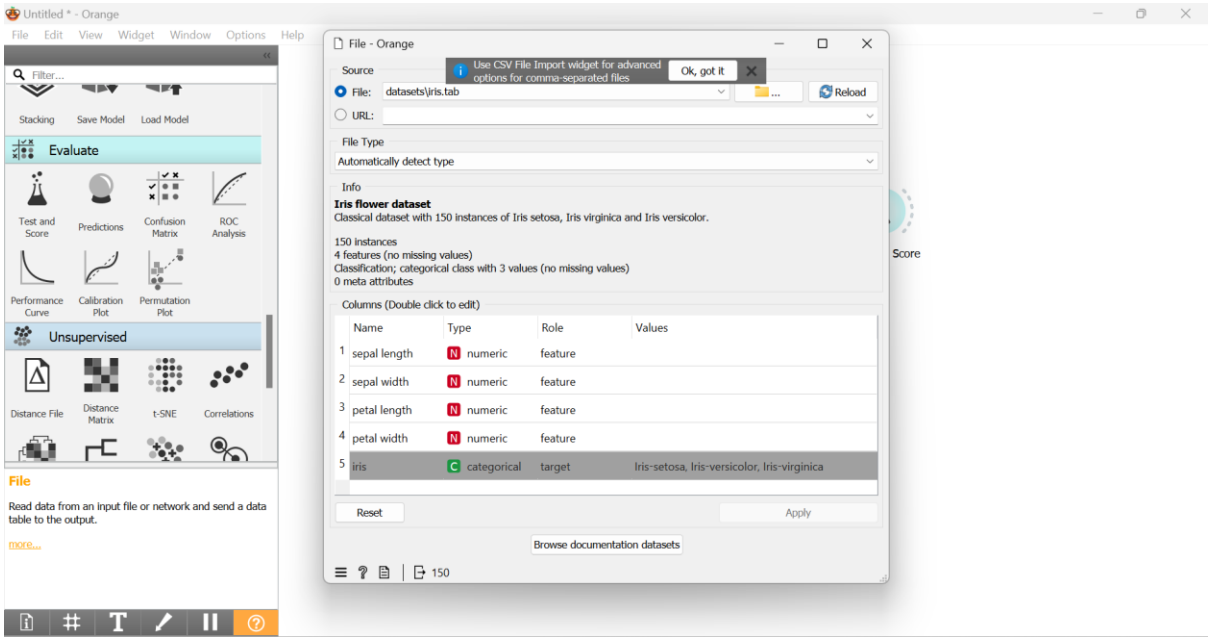
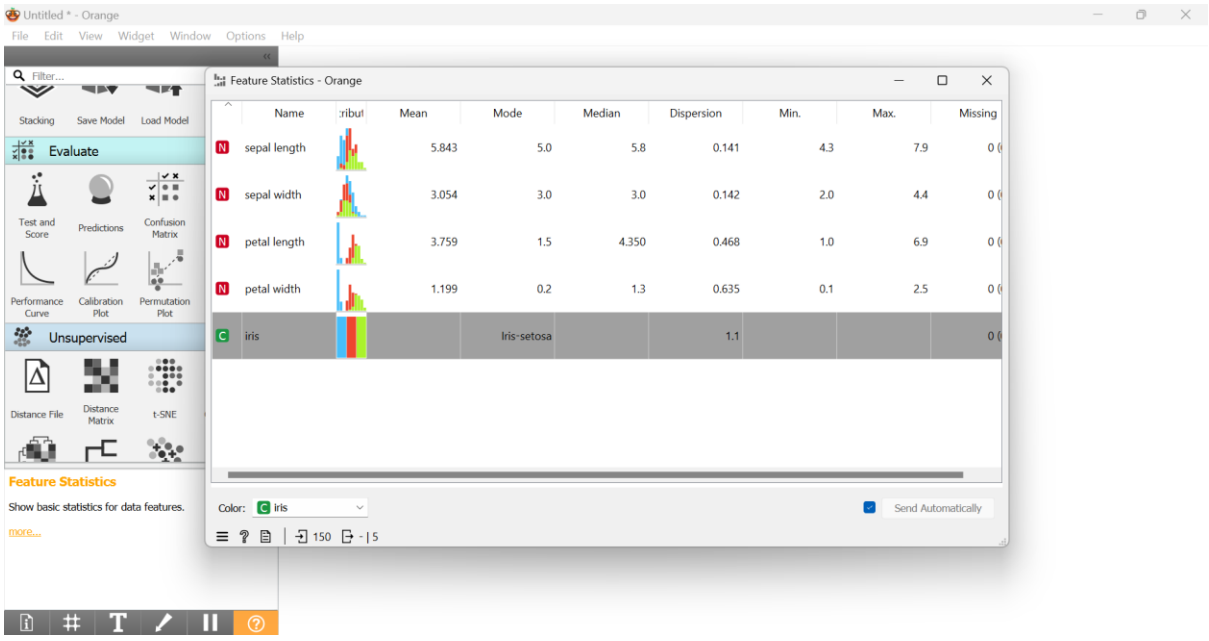
M.Asjaun

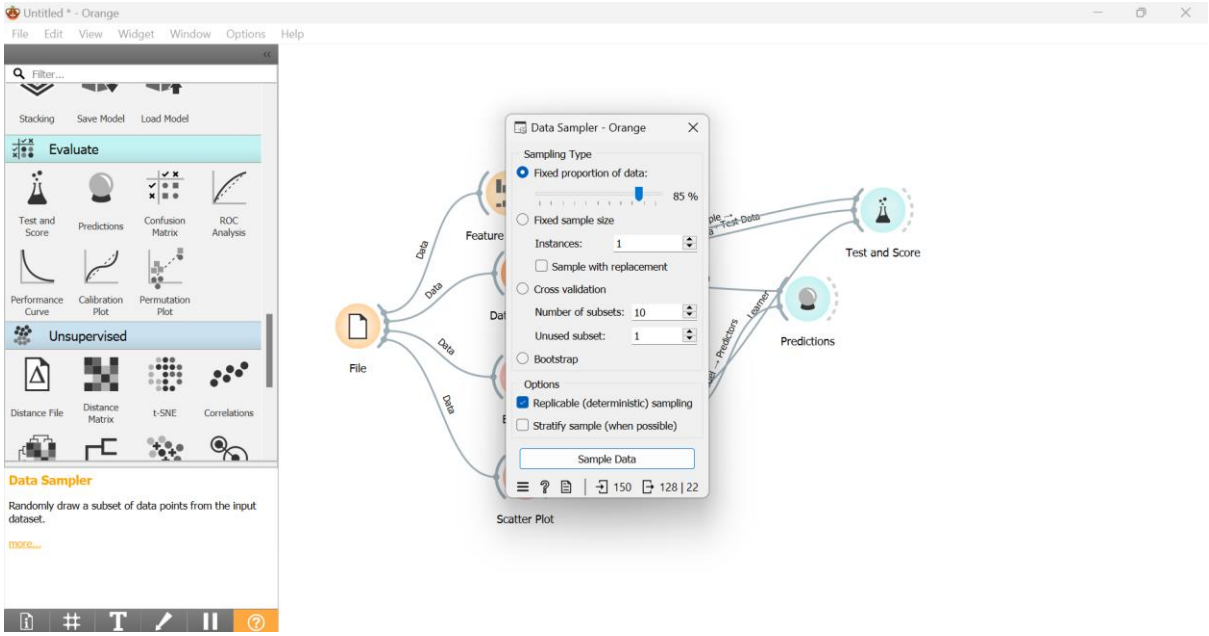
1103210181

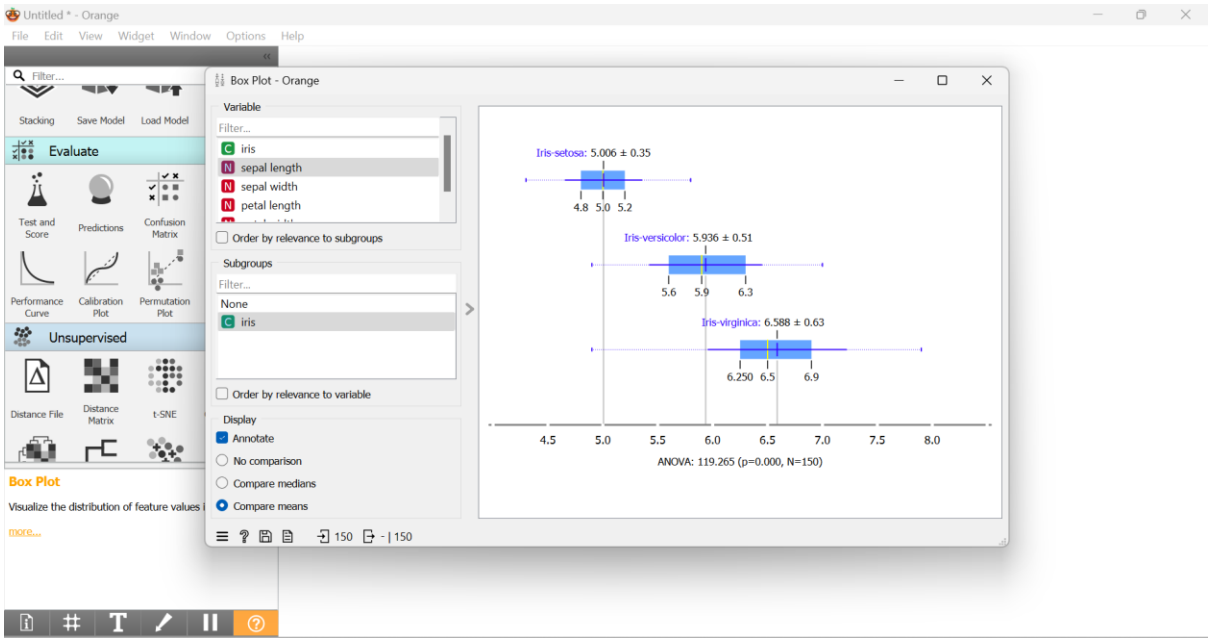
Task 2 Orange



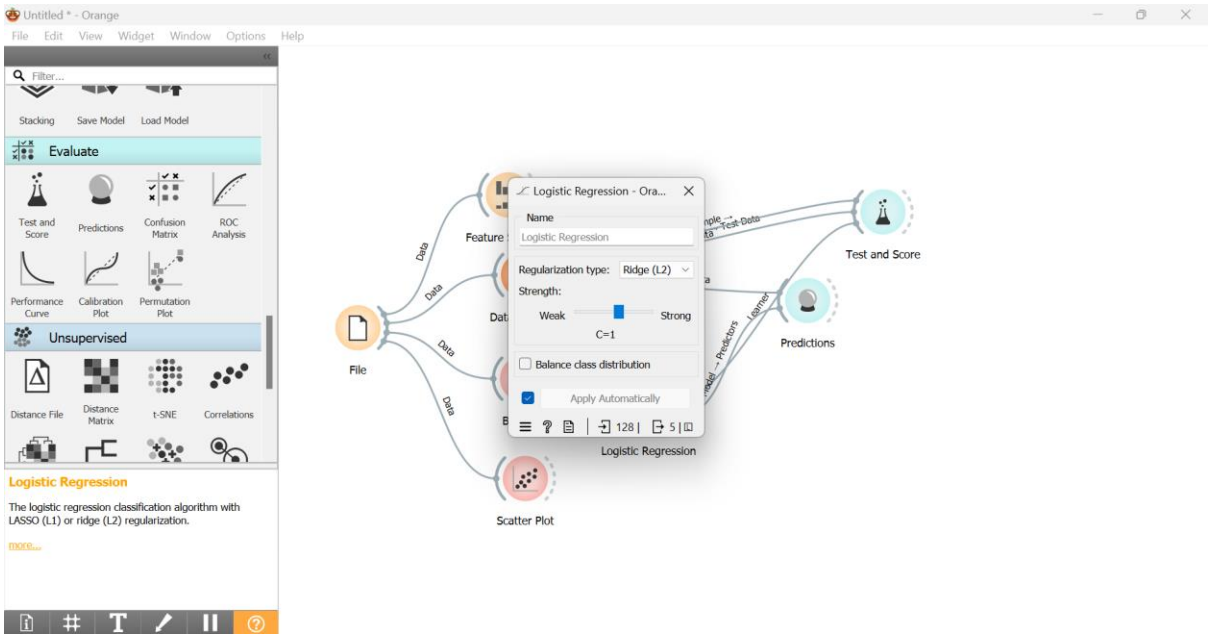


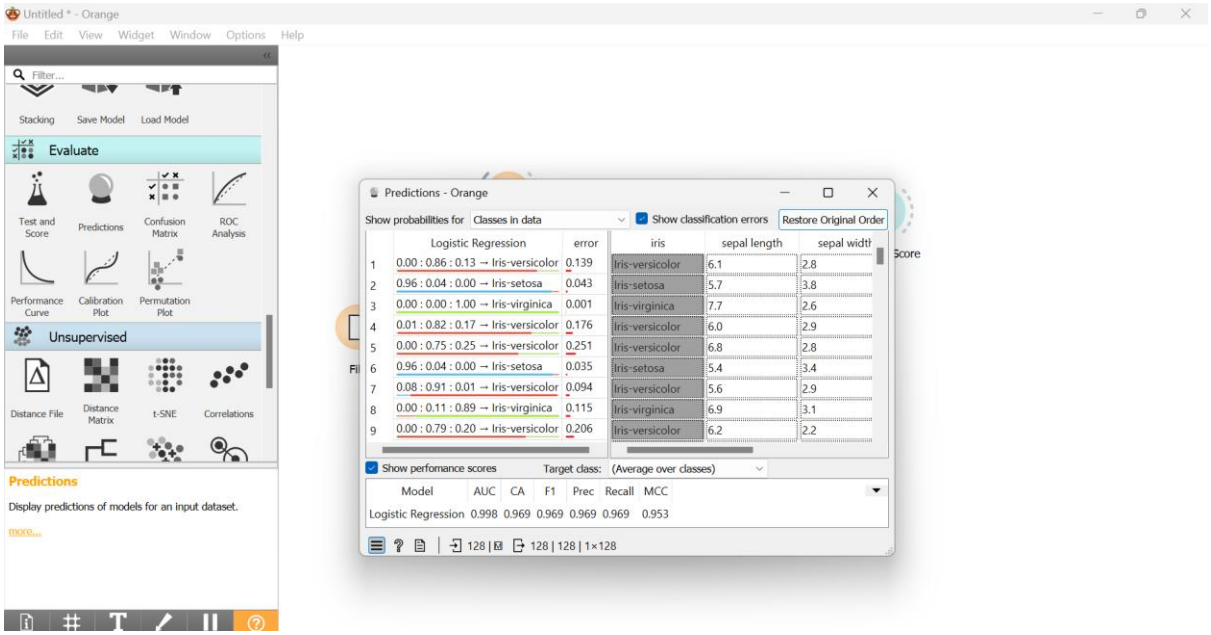

Untitled * - Orange
File Edit View Widget Window Options Help
Filter...
Stacking
Save Model
Load Model
Evaluate
Test and Score
Predictions
Confusion Matrix
Performance Curve
Calibration Plot
Permutation Plot
Unsupervised
Distance File
Distance Matrix
t-SNE
Feature Statistics
Show basic statistics for data features.
more...
Feature Statistics - Orange
Name
Mean
Mode
Median
Dispersion
Min.
Max.
Missing
sepal length 5.843 5.0 5.8 0.141 4.3 7.9 0
sepal width 3.054 3.0 3.0 0.142 2.0 4.4 0
petal length 3.759 1.5 4.350 0.468 1.0 6.9 0
petal width 1.199 0.2 1.3 0.635 0.1 2.5 0
iris Iris-setosa 1.1 0
Color: iris
Send Automatically
150 - | 5


Untitled * - Orange
File Edit View Widget Window Options Help
Filter...
Stacking
Save Model
Load Model
Evaluate
Test and Score
Predictions
Confusion Matrix
ROC Analysis
Performance Curve
Calibration Plot
Permutation Plot
Unsupervised
Distance File
Distance Matrix
t-SNE
Correlations
Data Sampler
Randomly draw a subset of data points from the input dataset.
more...
Data Sampler - Orange
Sampling Type
Fixed proportion of data:
85 %
Fixed sample size
Instances: 1
Sample with replacement
Cross validation
Number of subsets: 10
Unused subset: 1
Bootstrap
Options
Replicable (deterministic) sampling
Stratify sample (when possible)
Sample Data
150 128 | 22
File
Feature
Test and Score
Predictions
Scatter Plot
Data
Test Data
Learner


Untitled * - Orange
File Edit View Widget Window Options Help
Box Plot - Orange
Variable
iris
sepal length
sepal width
petal length
Order by relevance to subgroups
Subgroups
None
iris
Order by relevance to variable
Display
Annotate
No comparison
Compare medians
Compare means
Iris-setosa: 5.006 ± 0.35
Iris-versicolor: 5.936 ± 0.51
Iris-virginica: 6.588 ± 0.63
ANOVA: 119.265 (p=0.000, N=150)
Box Plot
Visualize the distribution of feature values
more...


Untitled * - Orange
File Edit View Widget Window Options Help
Scatter Plot - Orange
Axes
Axis x: sepal length
Axis y: sepal width
Find Informative Projections
Attributes
Color: iris
Shape: (Same shape)
Size: (Same size)
Label: (No labels)
Label only selection and subset
Symbol size:
Opacity:
Jittering:
Zoom/Select
Send Automatically
Iris-setosa
Iris-versicolor
Iris-virginica
sepal length
sepal width
Scatter Plot
more...


Untitled * - Orange
File Edit View Widget Window Options Help
Filter...
Stacking
Save Model
Load Model
Evaluate
Test and Score
Predictions
Confusion Matrix
ROC Analysis
Performance Curve
Calibration Plot
Permutation Plot
Unsupervised
Distance File
Distance Matrix
t-SNE
Correlations
Logistic Regression
The logistic regression classification algorithm with LASSO (L1) or ridge (L2) regularization.
more...
Logistic Regression - Ora...
Name
Logistic Regression
Regularization type: Ridge (L2)
Strength:
Weak
Strong
C=1
Balance class distribution
Apply Automatically
128 | 5 |
Logistic Regression
File
Feature
Data
Test and Score
Predictions
Scatter Plot


Untitled * - Orange
File Edit View Widget Window Options Help
Filter...
Stacking
Save Model
Load Model
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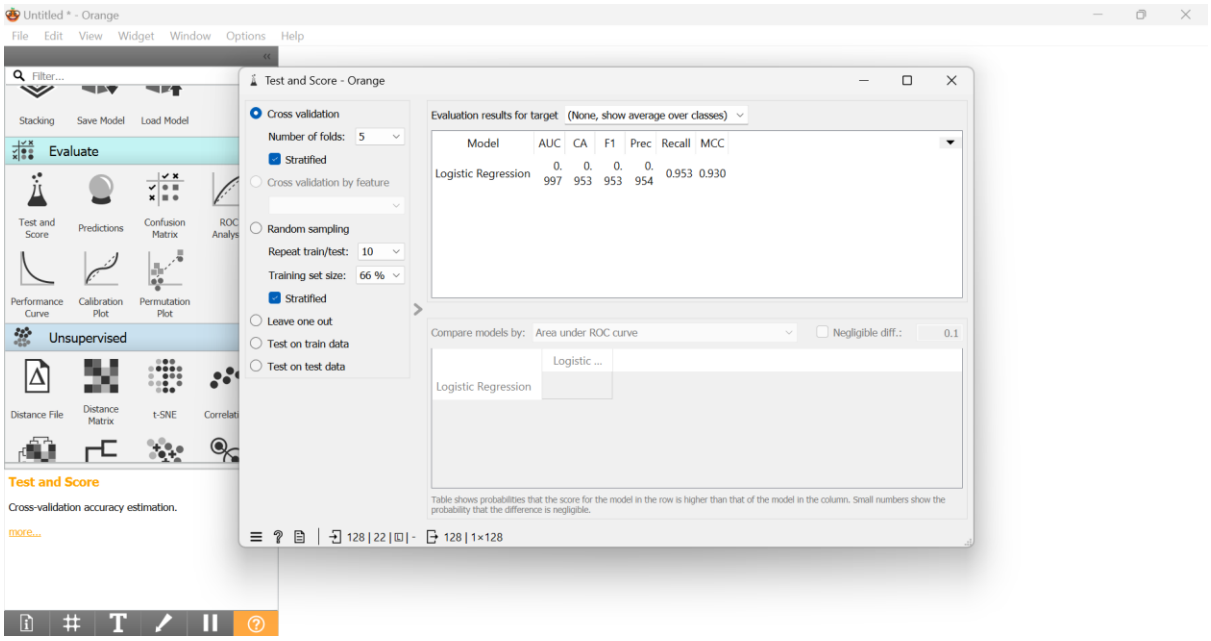
Test and Score
Predictions
Confusion Matrix
ROC Analysis
Performance Curve
Calibration Plot
Permutation Plot
Unsupervised
Distance File
Distance Matrix
t-SNE
Correlations
Predictions
Display predictions of models for an input dataset.
more...
Predictions - Orange
Show probabilities for Classes in data
Show classification errors
Restore Original Order
Logistic Regression error
1 0.00 : 0.86 : 0.13 → Iris-versicolor 0.139
2 0.96 : 0.04 : 0.00 → Iris-setosa 0.043
3 0.00 : 0.00 : 1.00 → Iris-virginica 0.001
4 0.01 : 0.82 : 0.17 → Iris-versicolor 0.176
5 0.00 : 0.75 : 0.25 → Iris-versicolor 0.251
6 0.96 : 0.04 : 0.00 → Iris-setosa 0.035
7 0.08 : 0.91 : 0.01 → Iris-versicolor 0.094
8 0.00 : 0.11 : 0.89 → Iris-virginica 0.115
9 0.00 : 0.79 : 0.20 → Iris-versicolor 0.206
iris sepal length sepal width
Iris-versicolor 6.1 2.8
Iris-setosa 5.7 3.8
Iris-virginica 7.7 2.6
Iris-versicolor 6.0 2.9
Iris-versicolor 6.8 2.8
Iris-setosa 5.4 3.4
Iris-versicolor 5.6 2.9
Iris-virginica 6.9 3.1
Iris-versicolor 6.2 2.2
Show perfomance 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
128 | 128 | 128 | 1×128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Filter...
Stacking
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Calibration Plot
Permutation Plot
Unsupervised
Distance File
Distance Matrix
t-SNE
Test and Score
Cross-validation accuracy estimation.
more...
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 ...
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.
128 | 22 | - 128 | 1×128