Dataset Configuration

Select the Target Column

type

Metrics to Plot

Select metrics to plot:

Confusion Matrix × Precision-Recall … × ROC Curve ×

Model Configuration

Classifier

Logistic Regression

Show Classifier Documentation

C (Regularization parameter)

0.25

Maximum number of iterations

297

100 500

Dynamic Dataset Classifier App

Upload your dataset to test classification models, optimize hyperparameters, and visualize model performance through key metrics like accuracy, confusion matrix, and ROC curves.

Upload your dataset (CSV)

Drag and drop file here
Limit 200MB per file • CSV

Browse files

mushrooms.csv 374.0KB

Dataset Uploaded Successfully!

	type	cap_shape	cap_surface	cap_color	bruises	odor	gill_attachment	gill_spacing	gill_size
0	p	x	s	n	t	p	f	c	n
1	e	x	s	y	t	a	f	c	b
2	e	b	s	w	t	l	f	c	b
3	p	x	y	w	t	p	f	c	n
4	e	x	s	g	f	n	f	w	b
5	e	x	y	y	t	a	f	c	b
6	e	b	s	w	t	a	f	c	b
7	e	b	y	w	t	l	f	c	b
8	p	x	y	w	t	p	f	c	n
9	e	b	s	y	t	a	f	c	b

Unique values in y_test: `{0, 1}`

Unique values in y_pred (after model prediction): `{0, 1}`

Class names:

value
e
p

Documentation for Logistic Regression

Logistic Regression:

- A statistical method for binary classification that predicts the probability of an outcome.
- It assumes a linear relationship between the input features and the log-odds of the outcome.
- Hyperparameters:
  - **C:** Regularization strength. Smaller values mean stronger regularization.

- **Max Iter**: Maximum number of iterations for the solver.

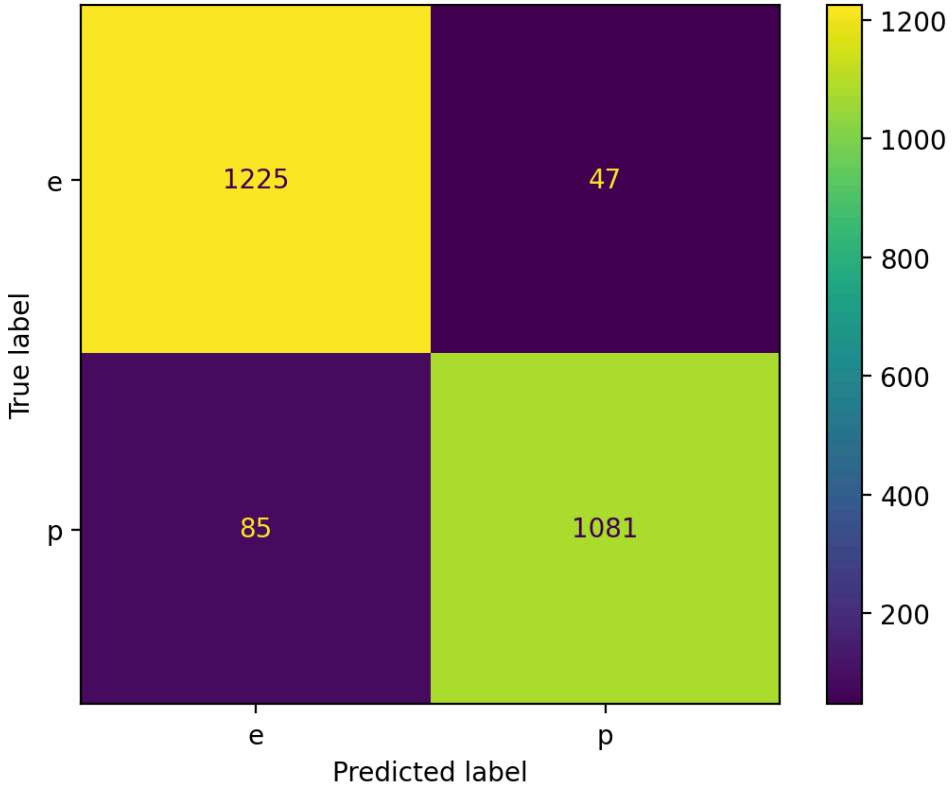
Logistic Regression Results

Accuracy: 0.95

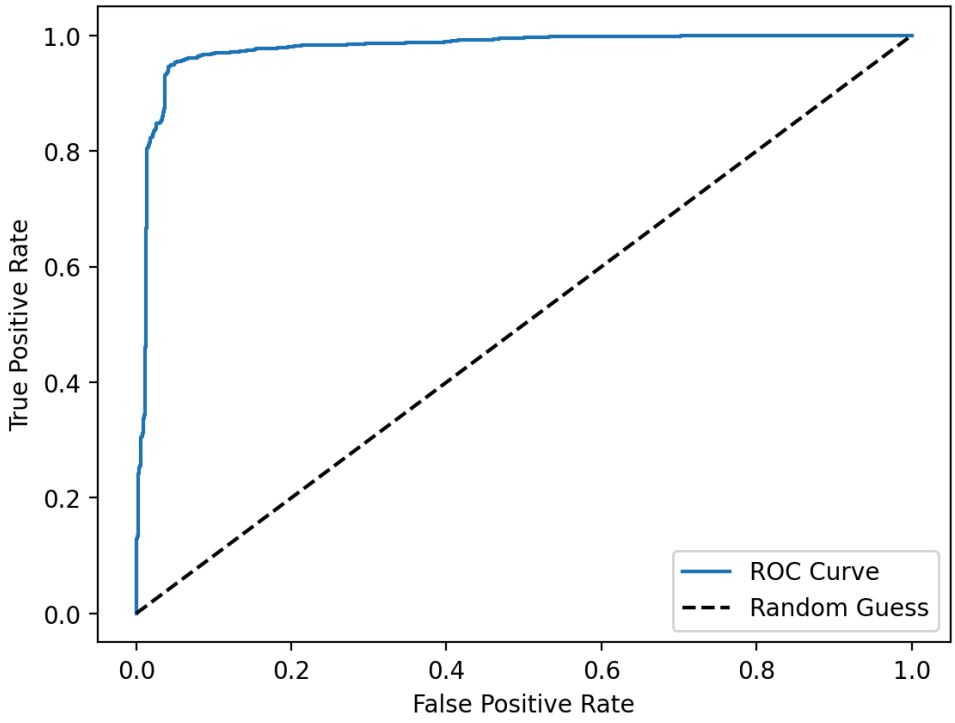
Classification Report (Table View):

	precision	recall	f1-score	support
e	0.9351	0.9631	0.9489	1,272
p	0.9583	0.9271	0.9425	1,166
accuracy	0.9459	0.9459	0.9459	0.9459
macro avg	0.9467	0.9451	0.9457	2,438
weighted avg	0.9462	0.9459	0.9458	2,438

Confusion Matrix



ROC Curve



Precision-Recall Curve