Binary Classification Web App

Are your mushrooms edible or poisonous?

Choose Classifier

Classifier

Logistic Regression

Show Classifier Documentation

Model Hyperparameters

C (Regularization parameter)

0.01

Maximum number of iterations

229

100 500

What metrics to plot?

Confusion Matrix × ROC Curve × Precision-Recall … ×

Classify

Show raw data

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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.

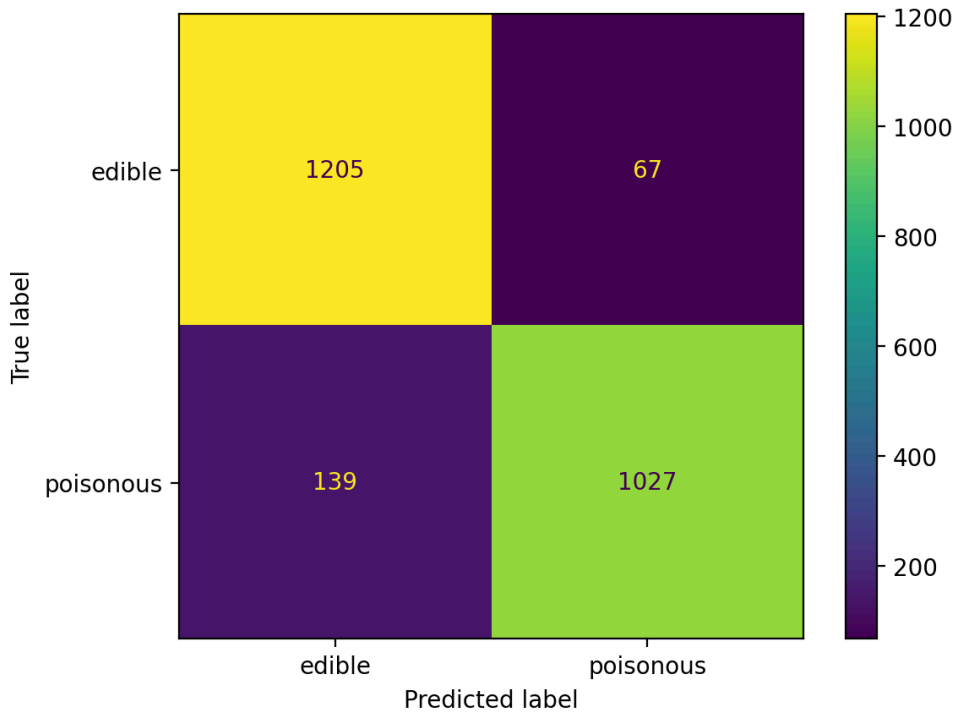
Logistic Regression Results

Accuracy: `0.92`

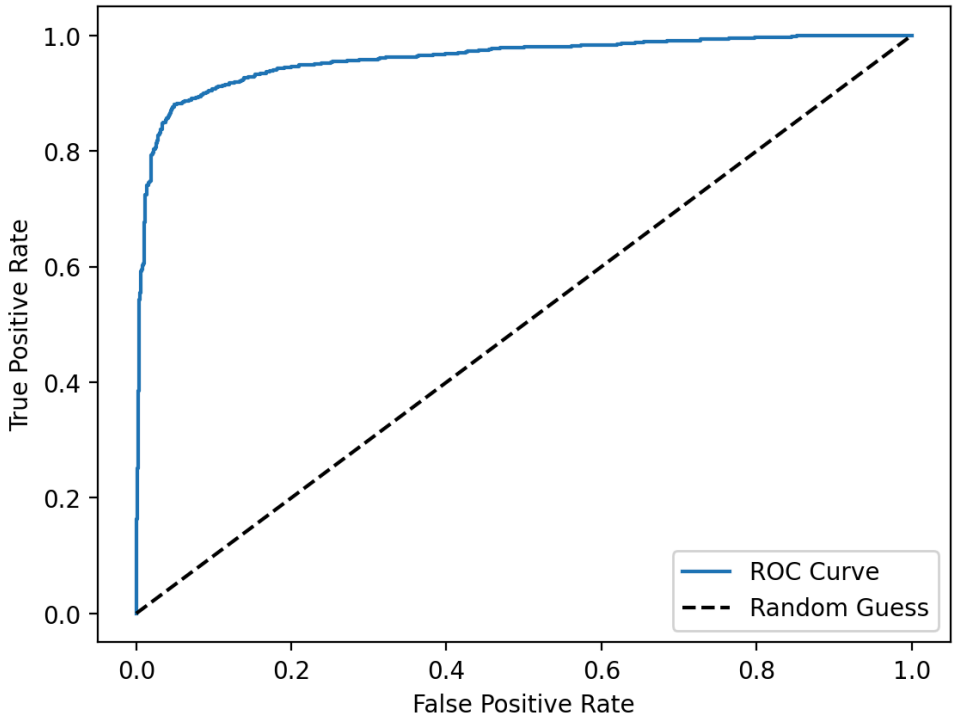
Precision: `0.94`

Recall: `0.88`

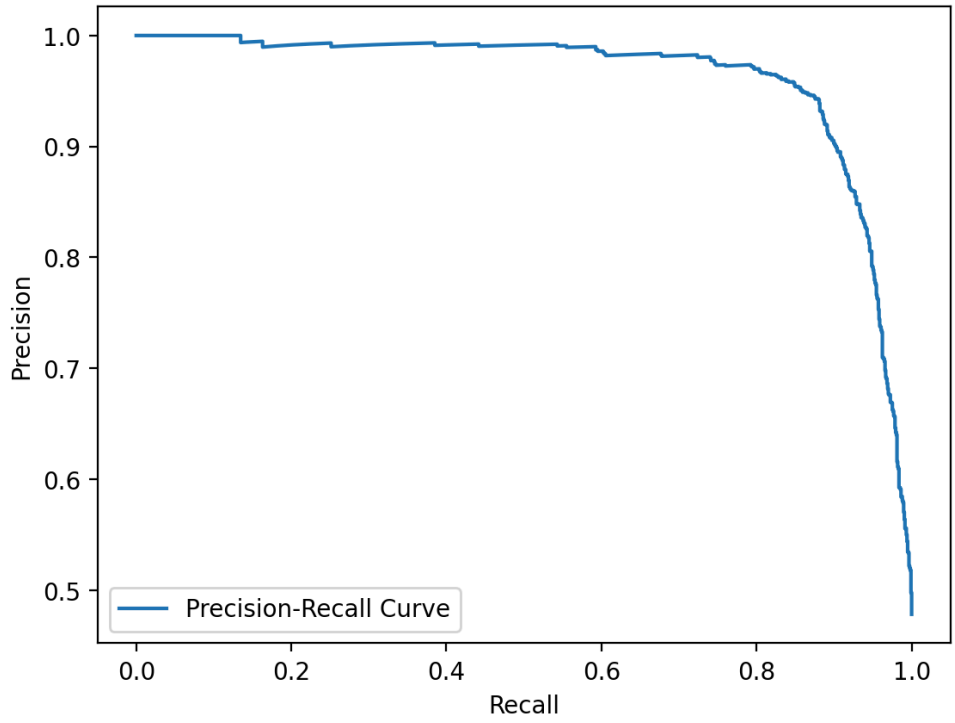
Confusion Matrix



ROC Curve



Precision-Recall Curve



Mushroom Data set (Classification)

	type	cap_shape	cap_surface	cap_color	bruises	odor	gill_attachment	gill_spacing	gill_size
0	1	5	2	4	1	6	1	0	1
1	0	5	2	9	1	0	1	0	0
2	0	0	2	8	1	3	1	0	0
3	1	5	3	8	1	6	1	0	1
4	0	5	2	3	0	5	1	1	0
5	0	5	3	9	1	0	1	0	0
6	0	0	2	8	1	0	1	0	0
7	0	0	3	8	1	3	1	0	0
8	1	5	3	8	1	6	1	0	1
9	0	0	2	9	1	0	1	0	0