Ungraded Lab: Logistic Regression using Scikit-Learn

Goals

In this lab you will:

- Train a logistic regression model using scikit-learn.

Dataset

Let's start with the same dataset as before.

In [ ]:
```
import numpy as np

X = np.array([[0.5, 1.5], [1,1], [1.5, 0.5], [3, 0.5], [2, 2], [1, 2.5]])
y = np.array([0, 0, 0, 1, 1, 1])
```

Fit the model

The code below imports the logistic regression model (https://scikit-learn.org/stable/modules/generated/sklearn.linear_model.LogisticRegression.html#sklearn.linear_model.LogisticRe from scikit-learn. You can fit this model on the training data by calling `fit` function.

In [ ]:
```
from sklearn.linear_model import LogisticRegression

lr_model = LogisticRegression()
lr_model.fit(X, y)
```

Make Predictions

You can see the predictions made by this model by calling the `predict` function.

In [ ]:
```
y_pred = lr_model.predict(X)

print("Prediction on training set:", y_pred)
```

Calculate accuracy

You can calculate this accuracy of this model by calling the `score` function.

In [ ]:
```
print("Accuracy on training set:", lr_model.score(X, y))
```