

Lab - Logistic Regression

Q1. Sigmoid function

- Find the values of the sigmoid function for values of x from -5 to 5 in steps of 1.
- Plot these values on a graph.

Q2.

- Fit a LogisticRegression model for the cancer data set.
- Find the accuracy and confusion matrix.

Q3.

- Fit a LogisticRegression model for the iris data set.
- Find the accuracy and confusion matrix.
- Use `model.predict_proba(X_test)` to get probabilities and print them out.

Q4.

- Fit a LogisticRegression model for the credit data set.
- Find the accuracy and confusion matrix.

Remember `X = pd.get_dummies(X)` to onehot encode the data.