Session 21 Addtional Exercise

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Introduction

This assignment will help you understand logistic regression.

Problem Statement

Use scikit learn's LogisticRegression class to model and make predictions on the following two datasets:

1) https://archive.ics.uci.edu/ml/datasets/bike+sharing+dataset

Using the model, make predictions of the demand for bikes when the windspeed is minimum and maximum. Plot the ROC curve.

2) MNIST Dataset

Use from sklearn.datasets import fetch_mldata

Output:

Accuracy metric of the model and predictions using the model on the test set.