

CS4361/5361 Machine Learning

Fall 2020

Naïve Bayes

Exercise 2

1. Modify the `naive_bayes.py` program to return the class probabilities in addition to the most probable class given a test example.
2. Modify the `naive_bayes.py` program to use log probabilities instead of probabilities in predictions and verify that results don't change.
3. Modify the `naive_bayes.py` program to use real-valued attributes and evaluate it with the MNIST dataset. Does performance improve when compared to the binary attribute case?