Final Report

Conor Dalton

December 2021

1 Predicting Bike Station Occupancy

- 1.1 Feature Engineering
- 1.1.1 Selection of Station
- 1.2 Machine Learning Methodology
- 1.3 Evaluation
- 2 Shorter Questions
- 2.1 ROC Curve
- 2.2 Situations Where Linear Regression will be Inaccurate
- 2.3 SVM Classifier vs. Neural Net Classifier
- 2.4 Operation of a Convolutional Layer in a ConvNet
- 2.5 K-fold Cross-Validation

A Appendix