

Regression Analysis of the Bike Sharing Demand

Chance Robinson, Jayson Barker and Neha Dixit

Master of Science in Data Science, Southern Methodist University, USA

1 Introduction

[Intro]

2 Data Description

[Capital Bikeshare program Data Set]

3 Objective I Analysis

3.1 Question of Interest

Question of Interest

3.2 Model Selection

[Lasso, Forward, Backward, Stepwise, Manual]

3.3 Model Assumptions Assessment

- One
- Two
- Three

3.4 Comparing Competing Models

Comparing Competing Models

3.5 Parameters

Parameters

3.6 Model Interpretation

Model Interpretation

3.7 Conclusion

Conclusion

4 Objective II Analysis

4.1 Question of Interest

[Discuss time series method]

Time-Series Analysis

[Details goe here]

4.2 Model Assumption Assessment

Model Assumption Assessment

4.3 Comparing Competing Models

4.4 Conclusion

Conclusion

5 Appendix

5.1 Explorator Data Analysis

5.2 Code