

Traffic and Air Quality: Executive Report

Group 1

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1 Executive Summary

(Write your executive summary here regarding the Traffic and Air Quality analysis.)

1.1 Business Problem

(Write your business problem here regarding the Traffic and Air Quality analysis.)

1.2 Objectives

(Write your objectives here regarding the Traffic and Air Quality analysis.) - find the relationship between traffic and NO2 levels

2 Methodology

(Write your methodology here regarding the Traffic and Air Quality analysis.)

2.1 Data Collection and Description

(Write your data collection and cleaning here regarding the Traffic and Air Quality analysis.)
(Web-scraping, etc.) data dictionary (link to github data_description.md)

2.2 Data Analysis

The following analysis explores the relationship between traffic volume and NO2 levels.

2.3 Model Architecture

- Feature Engineering
- k-fold Cross-Validation (expanding window)
- Model Performance and Evaluation Metrics (RMSE)
- Model Selection (RMSE)

3 Results

(Write your results here regarding the Traffic and Air Quality analysis.) - Shareholder value impact
- Relationship between traffic and NO2 levels - Business impact and recommendations

3.1 Conclusions

- Relationship between traffic and NO2 levels
- answer the questions in proposal

3.2 Limitations

(Write your limitations here regarding the Traffic and Air Quality analysis.) - Data limitations (hourly, daily data, location, time)

3.3 Future Directions

- Future Directions
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