

ST 306 Data Analysis and Report Writing

Mini project

2021 - 2022

This project aims to analyse and discover the trends in air quality across London city based on data collected at 36 air monitoring sites located in London from 01/01/2022 to 31/12/2023. Hourly measurement of NO_2 , NO_x , NO , O_3 , SO_2 , PM_{10} , $\text{PM}_{2.5}$ are available with missing observations in the dataset - “london_local_data_2022”. The details of each monitoring site are given in the “london_local_sites” dataset including the following variables.

1. code - identification code of the site
2. site - name of the site
3. latitude - latitude of the site
4. longitude - longitude of the site
5. parameter name - name of the substance measured

Conduct an exploratory data analysis and compile a report including following chapters.

1. Introduction
2. Literature review
3. Results and Discussion
4. Conclusion

Allocation of marks

The marks will be given for

1. the structure of the R project - 10 %
2. the structure and the content of the report - 20 %
3. the appropriate use of figures and tables to summaries and visualise the dataset - 50 %
4. the informative and simple interpretations of the findings - 20 %