

Assignment Contribution Report

Overview

This report details the contributions of each group member for the assignment, covering Tasks 1, 2, 3, and the Bonus Model.

Contributions

- **Task 1 (Data Acquisition and Initial Processing)**
Contributor: Abubakar
Abubakar was responsible for collecting the dataset and performing initial data processing steps. This included loading the data, performing initial cleaning, and ensuring the dataset's readiness for the next stages of analysis.
- **Task 2 (Data Preprocessing and Feature Engineering)**
Contributor: Jamilla
Jamilla handled data preprocessing and feature engineering. She managed handling missing values, data transformation, and encoding categorical variables to ensure the data was properly structured for model training.
- **Task 3 (Data Consistency Checks and Feature Selection)**
Contributor: Peris
Peris performed data consistency checks, handled duplicates, checked and cleaned categorical values, and conducted feature selection using statistical methods to identify the most significant features for model development.
- **Bonus Model (Random Forest Regressor Development)**
Contributors: Abubakar, Jamilla, Peris
All members collaboratively contributed to developing and evaluating the bonus Random Forest Regressor model. This involved splitting the data, training the model, evaluating its performance, and visualizing feature importance.

Conclusion

Each member played a pivotal role in ensuring the comprehensive execution of the assignment. The collaborative effort, particularly in developing the bonus model, exemplified teamwork and mutual contribution.

