- Introduction

This project is to predict the estimated time for food delivery. The data comes from <https://www.kaggle.com/datasets/gauravmalik26/food-delivery-dataset>. In this project, we used several data cleaning and feature engineering techniques to transform the data. After Data Cleaning, we tried out the most popular algorithms to get the best performance. SHAP(Shapley Additive exPlanations) is then used to analyze the result.

- Installation

1. Execute DataCleaning.ipynb

2. Execute Modeling. ipynb

3. Execute Analyze. Ipynb

- File explanation.

The original testing and training data are stored in the path “./final projet/Data/test.csv” and “Data/train.csv”.In this project, we developed the code in separate files to avoid re-running code blocks. The file Cleaning. ipynb is required to run first; we will get X\_train, X\_test,y\_train, and y\_test under “./final projet/Data/”, after the execution. The script Modeling. Ipynb will then train and store the best model. Lastly, the file Analyze. Ipynb will perform a result analysis for the model.

- Maintainers

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