

Data Collection

COVID-19 Features



Confirmed
Cases



Government
Restrictions



COVID-19
Vaccination



Target
(Traffic
Congestion)

Features

Environment Features



Climate



Waste

Human Mobility Pattern



Mobility
Changes

Time Features



Holiday

Machine Learning Training



Data
Pre-processing



Train Test Split
(80:20)

Model Training



- Multiple Linear Regression
- LightGBM
- Random Forest
- Support Vector Regression

Hyper Parameter tuning



Machine Learning Evaluation



Best-Performance
Model



Five-Fold
Cross Validation



Mean
Evaluation Metrics

Machine Learning Interpretation



SHAP

SHapley Additive
exPlanations