Target: Accident Severity

Features: Weather Condition, Passenger Count, Vehicle Count, Trip Duration, Bus Route Number, Crime Category

ML Model: Classification (e.g., Decision Trees, Random Forest, XGBoost)

Predict Passenger Demand for Bus Routes

Target: Passenger Count

Features: Weather Condition, Time, Stop Locations, Accident Severity, Crime Category

ML Model: Regression (e.g., Linear Regression, Random Forest, Neural Networks)

Crime Prediction in Transport Zones

Target: Crime Category

Features: District/Zone, Weather Condition, Time, Incident Description

ML Model: Classification (e.g., Naive Bayes, SVM, Deep Learning)

Traffic Congestion Prediction

Target: Trip Duration (mins)

Features: Weather Condition, Vehicle Count, Accident Severity, Stop Locations

ML Model: Regression