Executive Summary

Task/Goals:

The goal of my project is to develop machine learning models that can accurately predict the GoodTip.

Data background:

The dataset has many Features like pick-up and drop-off dates/times, pick-up and drop-off locations, trip distances, itemized fares, rate types, payment types, and driver-reported passenger counts.

Approach/methods used:

Logistic Regression

Decision Tree

Random Forest Classifier

Results:

Decision Tree and Random Forest Classifier are satisfied.
According to Random Forest Classifier the most important features are cash, fare amount, payment type, trip distance and tip amount are very important to classify if the tip awarded was good or not which all these features make logical sense in determining the GoodTip.