

Project Proposal

Background:

Fare evasion is the act of using public transportation without paying. In New York, repeat fare evaders can be arrested and charged with theft of services, a class A misdemeanor. According to MTA, unpaid fares on subways and buses cost an estimated \$59 million during the first quarter of 2021. This project aims to study subways fare evaders and the efficiency of current measures to fight it through the years and specifically during the 19-Covid pandemic.

Data Description:

1. **MTA Turnstile Data:** The New York subway MTA turnstile data is a series of data files containing cumulative number of entries and exits by station, turnstile, date, and time. Data files are produced weekly, data records are collected typically every 4 hours with some exceptions.
2. **NYPD Arrests Data:** This is a breakdown of every arrest effected in NYC by the NYPD going back to 2006 through 2021 May. Each record represents an arrest effected in NYC by the NYPD and includes information about the type of crime, the location and time of enforcement. In addition, information related to suspect demographics is also included.

Tools:

Python, Jupyter Notebook, Pandas, Matplotlib, Seaborn.