

SDAIA ACADEMY

T5 Boot Camp

EDA PROJECT REPORT

On: MTA Dataset

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EDA module





ABSTRACT

The goal of this project was to make EDA on MTA Dataset in order to solve existing problem or find an opportunity. I worked with Turnstiles Dataset provided by MTA. after exploring the data I come up with an opportunity and an idea of business. I wanted to make prove of concept using MTA dataset. I mead assumptions and approve it within the data and some of searching. based on fact that Each Division represents a subway system. in each system there are services provided by that kind of system. I emphasis on that data would be helpful for TOGO business.

DESIGN

TOGO is made up company, the main feature that TOGO offer is telling the food truck owners a production about when, where and which station to go. to increase the sells.

DATA

MTA Turnstile Data is a subway data from New York City (NYC) Metropolitian Transit Authority (MTA). Turnstile is a device that record the number of entries and number exits. The dataset has 11 features and 2722623 record.

The scope of the project is time bounded between June and August at 2021. in total they are 3 month as suggested. all features are included in the EDA.

ALGORITHMS

- Data Collection: using SQLite to import the CSVs into database
- Pre-Processing: Handling duplicate, Handling outliers,
- Feature Engineering: calculate Traffic column.





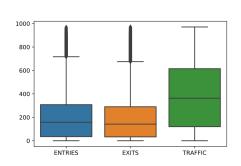
TOOLS

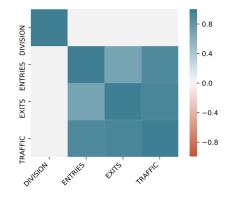
in this part of the report names of potential technologies and libraries are listed.

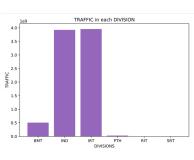
- Technologies: Python, Jupyter notebook, SQLite, Termina,
- Libraries: pandas, numpy, Matplotlib.

COMMUNICATION

in this part of the report I will show and document all of communication work has been shown both of visualisations and slide show:















COMMUNICATION



