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**Project Proposal Template**

**Background:**

Riyadh metro is **a rapid transit system under construction in Riyadh**, Saudi Arabia. It is part of the Riyadh Public Transport Project (RPTP), which is the largest public transport project. The RPTP comprises the construction of a metro network, a bus system and other transport services in Riyadh.

I have a solution to the problem of Riyadh metro congestion. I will work on studying the data and finding out when increasing the demand on the metro increases and what is the most places people's desire to go.

The value for the company is Improving the quality of service provided - transporting the largest number of passengers, which leads to customer satisfaction.

**Data Description**:

Dataset from metropolitan transportation authority data about the patterns of transit traffic in New York City.

Description of Field Description:

Field Name: Description

C/A: Control Area (A002)

UNIT: Remote Unit for a station (R051)

SCP: Subunit Channel Position represents an specific address for a device (02-00-00)

STATION: Represents the station name the device is located at

LINENAME: Represents all train lines that can be boarded at this station

DIVISION: Represents the Line originally the station belonged to BMT, IRT, or IND

DATE: Represents the date (MM-DD-YY)

TIME: Represents the time (hh:mm:ss) for a scheduled audit event

DESC: Represent the "REGULAR" scheduled audit event (Normally occurs every 4 hours)

ENTRIES: The cumulative entry register value for a device

EXITS: The cumulative exit register value for a device the dataset MTA

The Sample size: Data will be tested for the previous 3 months (August, June, July) 2021, because it will be enough and sufficient for the purpose of this study.

The dataset has 2722610 numbers of rows and 11 numbers of feature/columns.

**Tools**

* Technologies: SQL,SQLite Python, Jupyter notebook.
* Libraries: NumPy, Pandas, Matplotlib.