Data Intake Report

Name: G2M Insight for Cab Investment Firm

Report date: 10/14/2023

Internship Batch: LISUM26

Version:<1.0>

Data intake by: Matthew Iversen

Data intake reviewer:<intern who reviewed the report>

Data storage location: https://github.com/DataGlacier/DataSets

**Tabular data details:**

| **Total number of observations** | 848,681 |
| --- | --- |
| **Total number of files** | 4 |
| **Total number of features** | 17 |
| **Base format of the file** | .csv for all 4 files |
| **Size of the data** | 100.94 MB |

**Note: Replicate same table with file name if you have more than one file.**

Proposed Approach:

* Import the datasets to understand the structure, dimensions, and data types.
* Check the first few records of each dataset to get a sense of the data.
* The deduplication process was approached by checking for exact matches across all columns in the datasets.
* Check for any missing values in the datasets.
* Assess the nature and impact of the missing data to determine if any imputation or removal was necessary.
* Visualize data distributions using boxplots to inspect for potential outliers visually.
* Apply the IQR (Interquartile Range) method to identify outliers statistically.
* Identify common columns (keys) across datasets to perform merges.
* Create a comprehensive merged dataset for a holistic analysis, ensuring data consistency and integrity.
* Formulate hypotheses based on data attributes and business questions.
* Conduct both univariate and bivariate analyses to derive insights.
* Use visualizations extensively to support findings and insights.

Assumptions:

* Consistent Data: It was assumed that the data provided, especially where IDs are concerned (like Customer ID, Transaction ID), was consistent across datasets.
* Data Completeness: While missing values were checked for, it was assumed that the datasets provided represented a complete picture for the given time frame. Any data not present was considered as not collected or not relevant.
* Outliers: We assumed that extreme values in terms of payment could be legitimate, especially in the context of cab rides, which can vary greatly in distance and price.
* Currency: All monetary values were assumed to be in the same currency, likely USD, given the location of the cities.
* Time Frame Consistency: The data was assumed to be consistently recorded across the mentioned time frame without significant interruptions or changes in data collection methods.