# Green Taxi: Competitor Market Analysis

Assessed By Barbara Mikulášová

Report Generated By User Written By James Wright

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### 1 Data Collection and Quality Report

#### 1.1 Data Collection

#### 1.1.1 Metadata Quality Issues

Summary of problems and corrections with the metadata on import:

- All variable names should be upper-case by convention for formatting clarity;
- Inconsistent variable name word-separation convention across table variables variable PAYMENT-TYPE in taxi\_trips renamed to PAYMENT\_TYPE;
- Inconsistent ID variable name convention and naming variable LOCATION\_CODEID in taxi\_time\_location renamed to LOCATIONID for a consistent ID format across tables and common name across tables;
- Missing variables variable LOCATION\_DETAILS column in taxi\_time\_location was missing but is in appendix- added containing NA values for completeness.
- Ill-defined field categories in appendix, 'no charge', 'dispute', 'voided' need definitions.

#### 1.1.2 Duplication Issues

There were 67 duplicates in the taxi\_trips data, 0 duplicates in the taxi\_zone\_lookup data, and 0 duplicates in the taxi\_time\_location data. The duplicates have been saved as an Excel file in the 'Reports' folder to review which data gets duplicated in the collection process.

#### 1.1.3 Unexpected Data Value Issues

- Unexpected values;
  - In rows of taxi\_zone\_lookup, zone 'NV' inconsistent format with other zones. Treated as typo for NA.
- Unexpected categories;
  - Payment type 7 is not defined in the appendix but exists in the data.
    - \* For analysis purposes, these were redefined as NA as all corresponded to Vendor 3 which has mostly unknown data.
  - Rate code 8 is not defined in the appendix but exists in the data. Leaving as it is, as all correspond
    to vendor 3 who might have their own rate code like London cabs.
  - There is a category unknown for payment type just leave these as NA for convention.

#### 1.1.4 Missing Data Issues

- Inconsistency with naming convention for missing values e.g. Unknown, N/A, NA, NV.
  - All not available data should follow default naming convention NA.
- The entire Ehail column is missing. Data must be collected or stop storing the variable.
  - For analysis purposes, the column was dropped as it was not needed.
- The forward flag,

## 1.1.4.1 Count of Columns with Missing Values

STORE_AND_FWD	_FIPAKSSENGER_C	OUN <b>E</b> HAIL_FE	E PAYMENT_T	YPECONGESTION_SURCHA	RGE
32518	325	18 83691	32519	32518	

### 1.1.5 Extreme Data Issues

## 1.1.5.1 Unduplicated Data Summary Report

# 2 Data Analysis Report