

# Data Intake Report

Name: Persistency of Drug – Healthcare Project

Report date: 19/08/2025

Internship Batch: LISUM47

Version: 1.0

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Data intake reviewer:

Data storage location:

[https://drive.google.com/file/d/1P\\_oMc6gOBlhW6dY5PxaqxV2swdHMuooK/view](https://drive.google.com/file/d/1P_oMc6gOBlhW6dY5PxaqxV2swdHMuooK/view)

## Tabular data details:

<b>File Name</b>	Healthcare dataset
<b>Total number of observations</b>	3424
<b>Total number of files</b>	-
<b>Total number of features</b>	69
<b>Base format of the file</b>	.xlsx
<b>Size of the data</b>	898 KB

## Objective:

This report documents the quality checks and structure of the Healthcare dataset provided for analyzing **persistency of a drug**. The dataset encompasses patient demographics, provider attributes, clinical factors, comorbidities, adherence, and risk factors to support the development of a classification model that predicts patient persistence.

## Proposed Approach:

### 1. Data Cleaning:

#### a. Null Value Check:

##### i. Approach for check:

- Used **.isnull().sum()** in Pandas to identify any row has null values or not.
- If duplicates were found, we would drop them using **.dropna()**

#### b. Duplicate Value Check:

##### i. Approach for check:

- Used **.duplicated().sum()** in Pandas to identify any full-row or key-based duplicates.
- If duplicates were found, we would drop them using **.drop\_duplicates()**

### 2. Column-Wise Format Fixes:

- a. Standardize categorical variables (e.g., Race, Gender, Region).

- b. Convert Age buckets into numerical or ordinal encoding.

**3. Assumptions:**

- Patient ID (Ptid) is unique and primary key.
- Persistency\_Flag is the dependent variable (binary classification).
- Clinical metrics such as T-Score and Risk Segments are consistent across patients.

**4. Outlier detection**

- Outliers are expected in continuous variables, such as Age, T-score, and Dexa Scan Frequency.

**5. Correlation Observations**

Persistency likely correlated with Age, Adherence, Risk Segments, and Comorbidity factors.