Week 8

Healthcare - Persistency of a drug: Group Project

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Problem Description

Data Understanding

The data used by ABC has been obtained from the following sources:

- Patient
- Clinical Records
- Medical provider records

Pandas profiling tool was used to understand the data and the following observations were made:

- ➤ Total number of records in the dataset-**3424**
- ➤ Number of variables-69

Variables are grouped by demographics, provider attributes, clinical factors and disease/treatment factor.

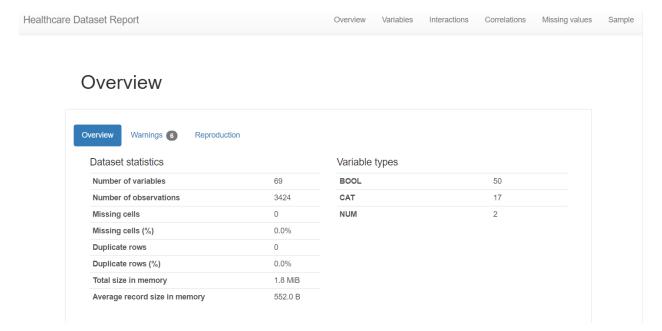
Variable types

Boolean-50

Categorical-17

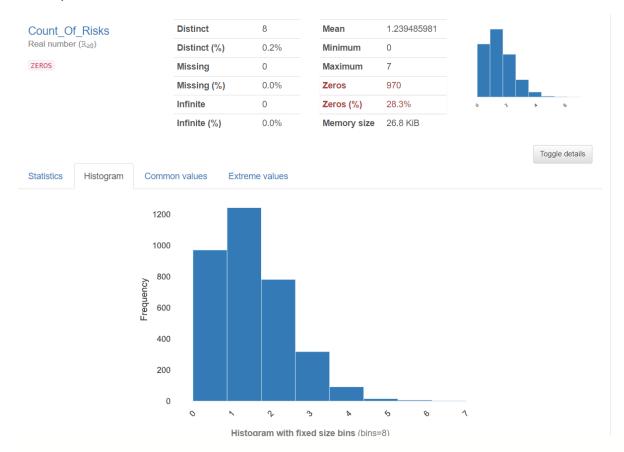
Numerical-2

The below diagram summarizes the findings:



Problems with the data

There are no missing values or duplicates in the dataset. For the numerical variables, the values in $Count_of_Risk$ variable are moderately skewed with a skewness of 0.87. The variable also has no outliers, as shown below:



The second numerical variable <code>Dexa_Freq_During_Rx</code> is highly skewed with a skewness of 6.8. This means that the data is asymmetrical and needs to be transformed before training the model.

