



**Data Glacier**

Your Deep Learning Partner

# Exploratory Data Analysis

Healthcare – Persistency of a drug

12/11/2022

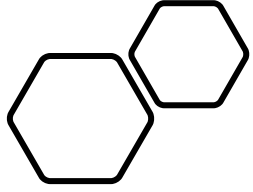


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# Group FTR

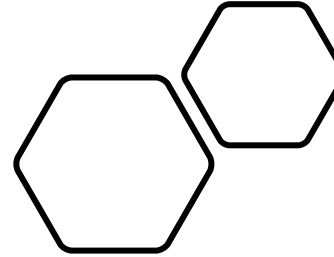
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# Agenda

- Executive Summary
  - Problem Statement
  - Objectives
  - Approach
- EDA
- EDA Summary

# Executive Summary



## Problem statement

- One of the challenge for all Pharmaceutical companies is to understand the persistency of drugs as per the physician prescription. To solve this problem ABC pharma company would like the process Automated.

## Objectives

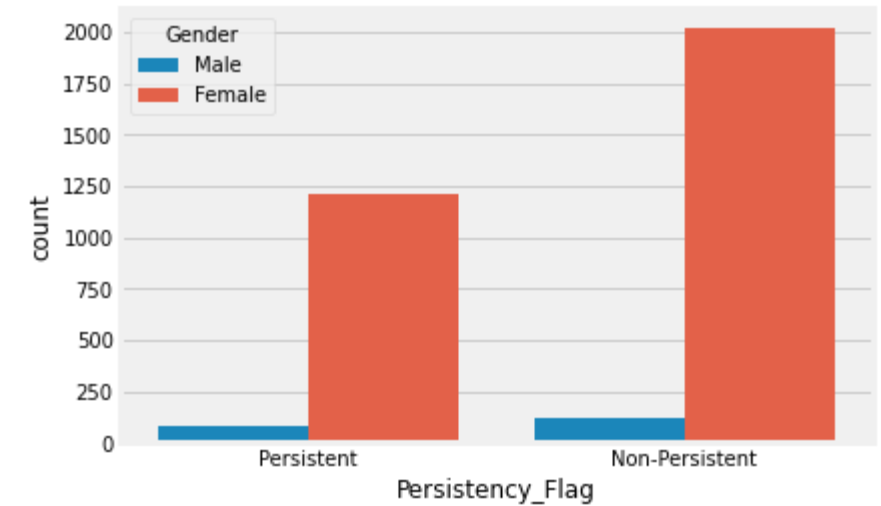
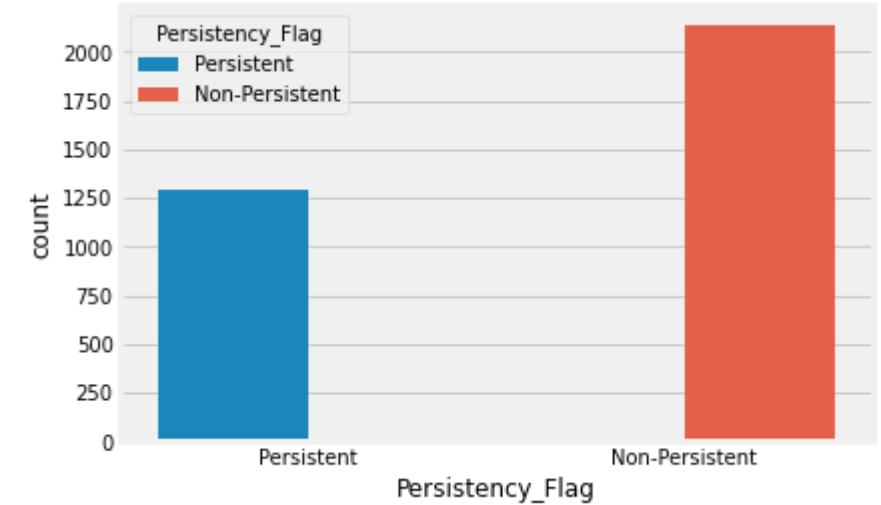
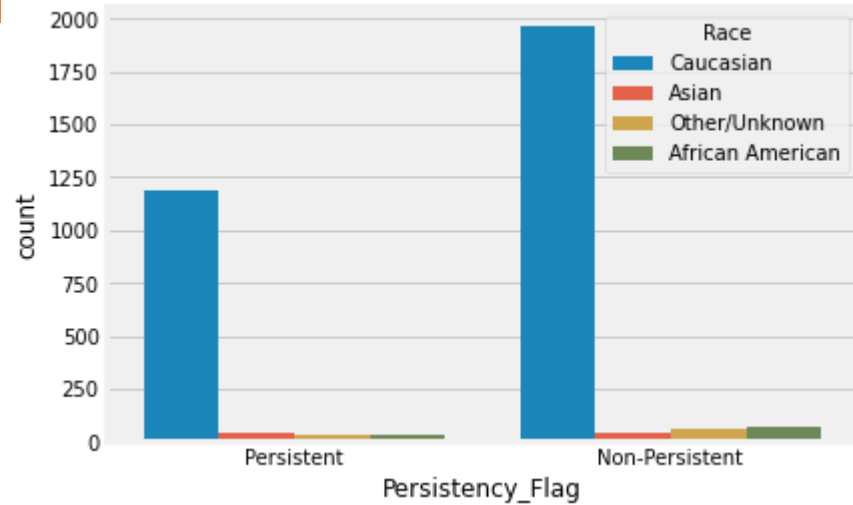
- The overall aim of the analysis part of the project is to provide insights into factors that impact the persistency of drugs, which afterwards will lay the foundation on building a suitable classification model.

## Approach

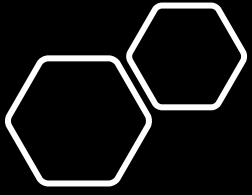
- Understanding the dataset
- Identifying the most impactful factors
- Making recommendations.



# Exploratory data analysis

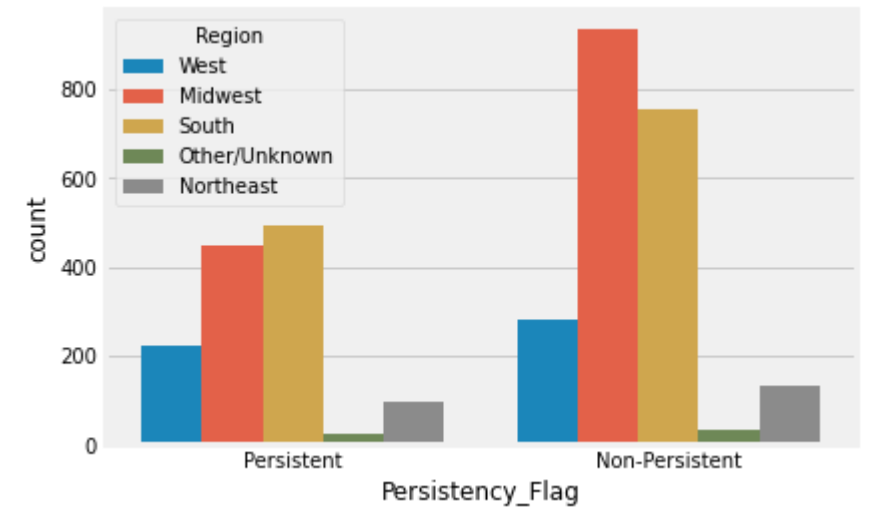
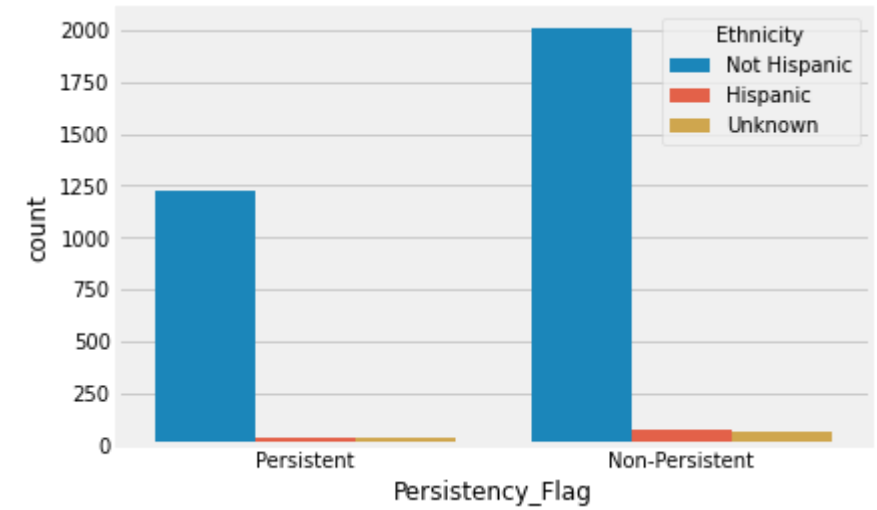


- The number of cases where the drugs proved to be non-persistent were higher compared to number of persistency cases.
- The dataset reveal that more females partook in this analysis than male.
- People of Caucasian race when compared to other races were the most common in the study.

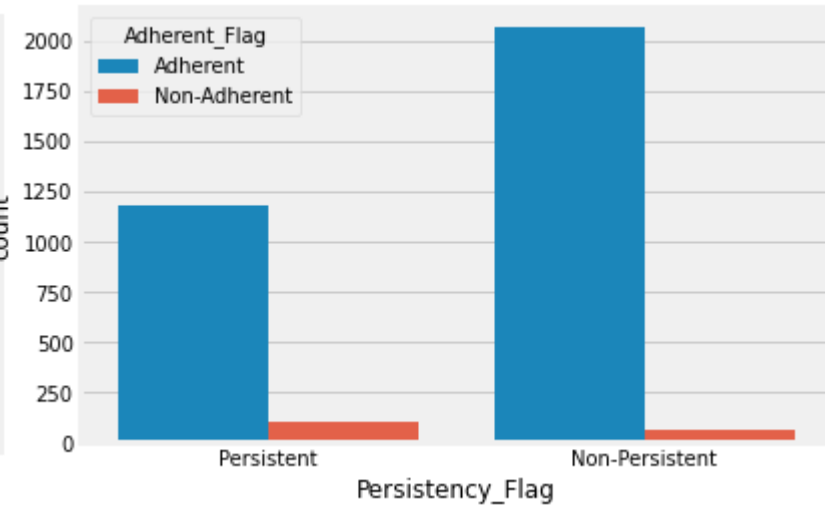
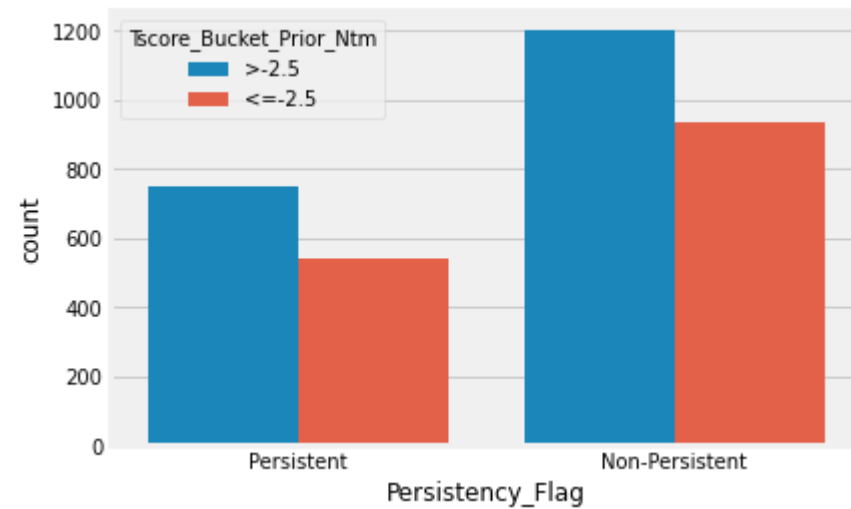
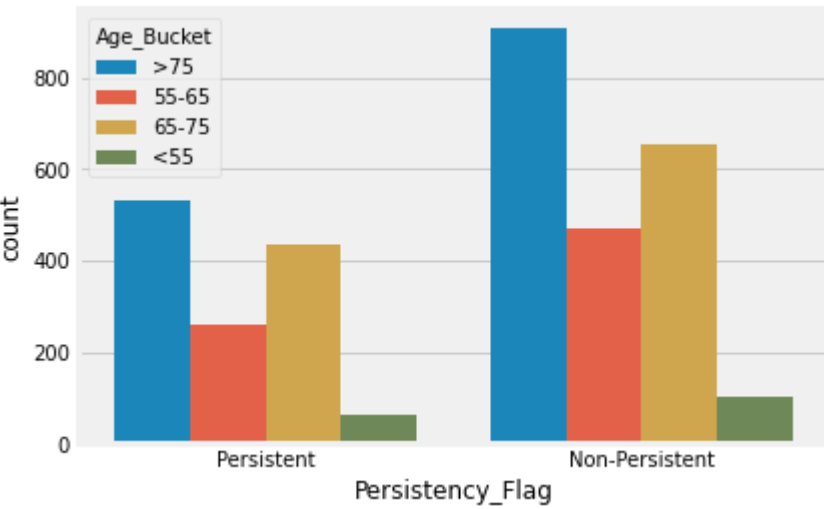


- The non-Hispanic ethnic group were the most common in the study.
- There were more people from the Midwest and South region compared to other regions.

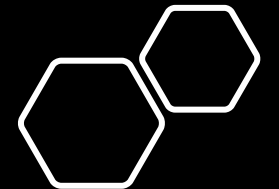
## Exploratory data analysis



## Exploratory data analysis

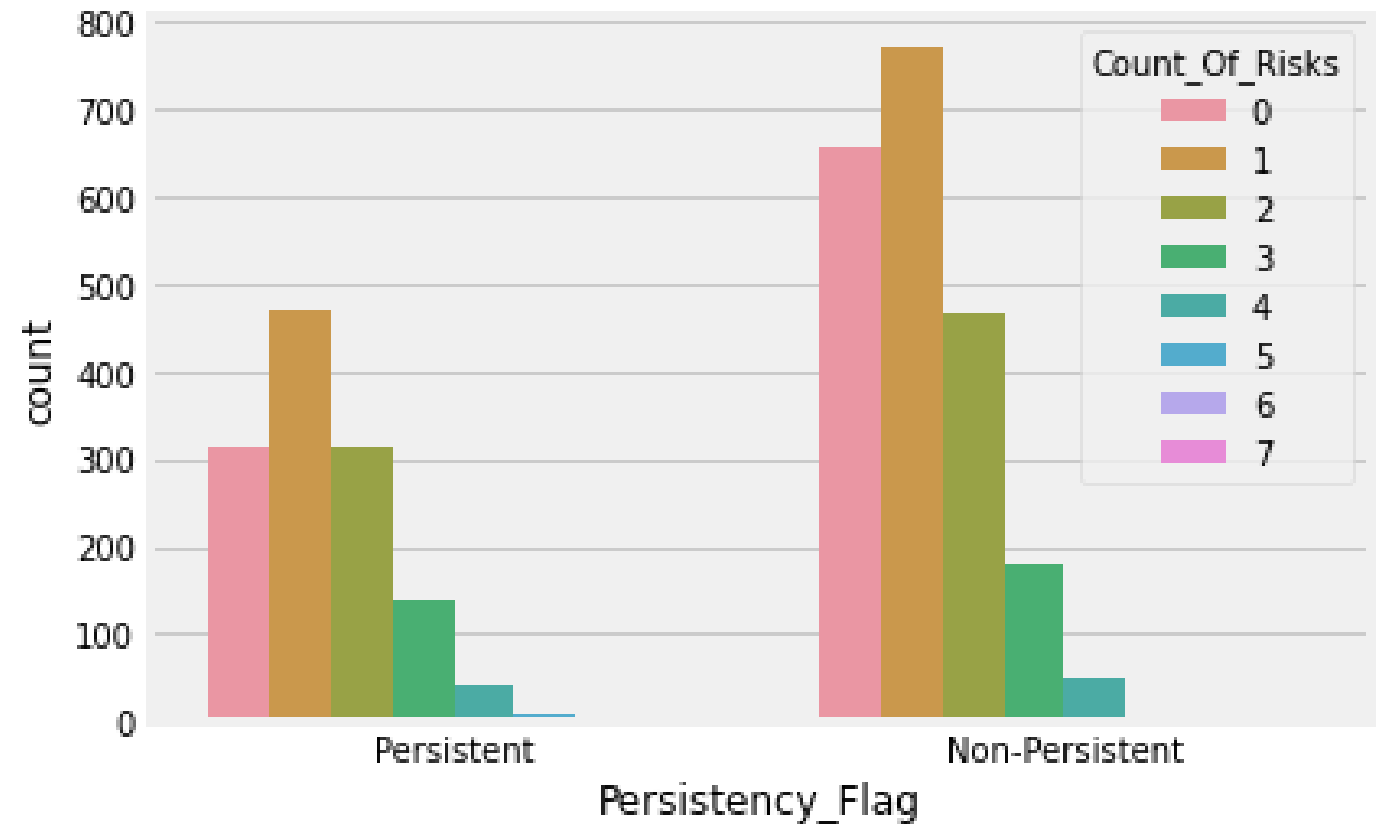


- For this study, the majority of people selected are greater than 75 years of age.
- People with a Tscore of >-2.5 have a higher chance of drug being non-persistent.

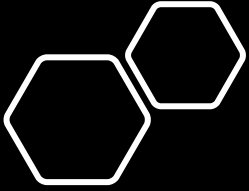




## Exploratory data analysis



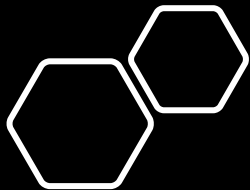
- The chart reveals people with a lower count of risk have a higher chance of drug being non-persistent.



# Summary and recommendation

## EDA SUMMARY

- The dataset contains 3424 rows and 69 columns.
- The number of cases where the drugs proved to be non-persistent were higher compared to number of persistency cases.
- The dataset reveals that more females partook in this analysis than male.
- People of Caucasian race when compared to other races were the most common in the study.
- The non-Hispanic ethnic group were the most common in the study.
- There were more people from the Midwest and South region compared to other regions.
- For this study, most people selected are greater than 75 years of age.
- People with a Tscore of  $>-2.5$  have a higher chance of drug being non-persistent.



# Repository details

- Github Repo link: [Ovuowo-Rukevwe/-Healthcare-Persistency-of-a-Drug \(github.com\)](https://github.com/Ovuowo-Rukevwe/-Healthcare-Persistency-of-a-Drug)

# Thank You