



Data Glacier

Your Deep Learning Partner

PERSISTENCY OF A DRUG: GATHERING INSIGHTS FOR A PHARMA COMPANY

Name: Shruthi Madgi

Email: Shruthi.madgi05@gmail.com

Country: USA

University: Visvesvaraya Technological University

Specialization: Data Science

Batch no: LISUM17

Reviewer: Data Glacier



Problem Description:

One of the challenge for all Pharmaceutical companies is to understand the persistency of drug as per the physician prescription. To solve this problem, ABC pharma company has approached an analytics company to automate the process of identification.

Business Understanding:

- The aim is to know if a patient, based on his/her information, will follow the prescription of the physician and continue taking the drug for the duration of the treatment. A dataset has been provided with patients' details.
- The client is a Pharmaceutical company. A model needs to developed that will predict if a patient will continue the prescribed drug of his/her physician; owned by the company.
- An classification model based on categories of patients and their information will be built as solution.
- A Web app can be created to predict patients usage of the drug ,where the company can track whether the drug was consumed during entirety of the treatment.



Project Lifecycle and Deadlines:

- Problem understanding- 19 Feb,23'
- Data Understanding- 26 Feb,23'
- Data Cleaning and Feature engineering-2 Mar,23'
- Model Development-9 Mar,23'
- Model Selection & Model Evaluation-23 Mar,23'
- Final Code and Report-30 Mar,23'



Data Intake Report

Name: Persistency of a drug: Data Science Project

Report date: 15th Feb,23'

Internship Batch: LISUM17

Version:1.0

Data intake by: Shruthi Madgi

Data intake reviewer: Data Glacier

Data storage location: https://github.com/shru0405/DataGlacierInternship/tree/main/Week_7

Tabular data details:

Total number of observations	3424
Total number of files	1
Total number of features	69
Base format of the file	xlsx
Size of the data	900 KB

GITHUB: https://github.com/shru0405/DataGlacierInternship/tree/main/Week_7