

Data Science::Healthcare - Persistency of a drug

Project Performer detail (Individual):

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<i>Specialization</i>	Data Science

Problem Description:

One of the greatest problems faced by Pharmaceutical companies these days is of persistency related to drugs. Persistency is related to the behavior of patient towards the medication advised by doctor. This term reflects the duration of time a drug is taken by a patient from the start of treatment to the end of treatment as maintained by doctor. The persistency is important because it can save not only the health of patient but also the money endured on health care system on illness due to discontinuity of drugs.

Business Understanding:

Considering the problem of drug persistency the one pharma company ABC decided to deploy machine learning techniques for automating the process of identification of persistent behavior of patients. The company wants to have a model that can accurately classify patients in one of two classes namely persistency or non-persistency. This can be achieved by identifying the different factors related to the behavior of patient. The model can be achieved after evaluation and by eradicating all the anomalies present in the data.

Project Lifecycle with deadline:

The project will be accomplished according to the following steps:

<i>Data Understanding and Exploratory Data Analysis</i>	21/09/2021
<i>Data preparation and preprocessing</i>	28/09/2021

<i>Modeling , Modeling Evaluation and Selection</i>	5/10/2021
<i>Result Submission and Presentation</i>	12/10/2021

Data intake report:

Name: Data Science::Healthcare - Persistency of a drug

Report date: 15/10/2021

Internship Batch: LISUM02

Version: 1.0

Data intake by: Amna Naeem

Data intake reviewer: Amna Naeem

Data storage location:

https://drive.google.com/file/d/1P_oMc6gOBlhW6dY5PxaqxV2swdHMuooK/view

Tabular data details:

Total number of observations	3424
Total number of files	1
Total number of features	69
Base format of the file	Microsoft Excel Worksheet (.xlsx)
Size of the data	899 KB

Github Repo Link:

<https://github.com/AmnaNaeem/DataScience-Project>