OpenML Team Member's Details

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ABC Pharma - Persistency of a Drug

Business Description:

ABC Pharma, among other Pharmaceutical companies, are finding it difficult to understand the medication persistency of their drug as per physician prescription. In search for answers, Pharmaceutical companies are looking into the potential insights data can provide to them.

Problem Description:

ABC Pharma contacted OpenML to carry out an analysis in order to have a deeper understanding on the factors impacting the persistence of their drug. 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 all the treatment time. We have been provided with a dataset with patients' details.

Business Understanding:

The client is a pharmaceutical Company. We will develop a model that predicts if a patient will stick or not to the prescriptions of his/her physician on taking an specific drug owned by the company.

Since what we are looking for is a model that separates in categories the patients based on their information, we will develop a classification model as a solution.

Our aim is to develop a web app that could be used by the company to predict if a patient will follow or not with the drug taking schedule.

Project Lifecycle and (expected) Deadlines:

Task	Week
Problem understanding, Data Understanding	**April 19th**
Data Cleaning, EDA and Feature engineering	**April 26th**
Model development, selection, evaluation, metrics	**May 3rd**
Deploy the model and explanation (Final presentation)	**May 10th**

Absolute deadline is **May 15th**.

Data Intake Report

Name: Healthcare project – Drug Persistency
Internship Batch: LISP01
Version: 1.0
Data intake by: OpenML team
Data intake reviewer: OpenML team
Data storage location: local

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	920 KB

GITHUB REPO: https://github.com/jaycee-ds/Drug_Persistency_ABC_Pharma