

Week 7: Project – Persistence of a Drug

Name: Data Science Healthcare Project

Report date: 11/17/2024

Internship Batch: LISUM38

Version: 1.0

Data intake by: Serhat Uğur

Data intake reviewer: Data Glacier

Data storage location: <https://github.com/serhatugur/data-science-internship>

Tabular data details:

Total number of observations	3424
Total number of files	1
Total number of features	26
Base format of the file	.xlsx
Size of the data	898 KB

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Problem Description

One of the challenges for all pharmaceutical companies is to understand the persistence of drugs as per the physician's prescription. To solve this problem, ABC Pharma Company approached an analytics company to automate the identification process.

Business Understanding

"Persistency_Flag" is the main target variable. This variable contains whether the patient is persistent or not. My main objective is to automate the process to find out if the patient will be persistent or not.

Project Lifecycle

Week	Deadline	Task
Week 7	Nov 19, 2024	Problem Description/Business Understanding
Week 8	Nov 26, 2024	Problem Definition/Data Cleaning
Week 9	Dec 2, 2024	Data Processing and Transformation
Week 10	Dec 9, 2024	Exploratory Data Analysis
Week 11	Dec 16, 2024	Model Evaluation
Week 12	Dec 23, 2024	Model Selection and Building
Week 13	Dec 30, 2024	Final Project Report