

# 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:

<b>Total number of observations</b>	3424
<b>Total number of files</b>	1
<b>Total number of features</b>	26
<b>Base format of the file</b>	.xlsx
<b>Size of the data</b>	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**

<b>Week 7</b>	<b>Problem Description/Business Understanding</b>
<b>Week 8</b>	<b>Problem Definition/Data Cleaning</b>
<b>Week 9</b>	<b>Data Processing and Transformation</b>
<b>Week 10</b>	<b>Exploratory Data Analysis</b>
<b>Week 11</b>	<b>Model Evaluation</b>
<b>Week 12</b>	<b>Model Selection and Building</b>
<b>Week 13</b>	<b>Final Project Report</b>