# Data Science Project

# Healthcare – Persistency of a Drug

# Week 12 works

Team member’s details:

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Problem Description

To identify the persistency of a drug, a pharmaceutical company approached to develop a model based on data analysis. Factors that affect the persistence of drugs should be identified, along with data insights with predictive analytics, to help the company for their smooth and efficient functioning, with the help of dataset provided by the company.

Github Repo Link

[Final\_Project\_DS\_SS/week\_12 at master · Soniyasunny1/Final\_Project\_DS\_SS (github.com)](https://github.com/Soniyasunny1/Final_Project_DS_SS/tree/master/week_12)

# Week 12: Model Selection and Model Building

Tried four different types of models:

1. Logistic Regression
2. Decision Tree Classifier
3. Random Forest Classifier
4. KNN

Random Forest Classifier is the best model in terms of accuracy.

Data Intake Report

Name: Data Science Final Project – ‘Healthcare – Persistency of a Drug’

Report date: August 12, 2022

Internship Batch: LISUM10: 30

Version:<1.0>

Data intake by: Soniya Sunny

Data intake reviewer:<intern who reviewed the report>

Data storage location: [Healthcare\_dataset.xlsx - Google Drive](https://drive.google.com/file/d/1P_oMc6gOBlhw6dY5PxaqxV2swdHMUooK/view)

**Tabular data details:**

|  |  |
| --- | --- |
| **Total number of observations** | 3425 |
| **Total number of files** | 1 |
| **Total number of features** | 69 |
| **Base format of the file** | .xlsx |
| **Size of the data** | 899 KB |