

# Group FTR

## Week 9: Deliverables (Pls Scroll down)

### Team Details

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### Problem statement

One of the challenges for all pharmaceutical companies is to understand the persistency of drug as per the physician prescription. To solve this problem ABC pharma company approached an analytics company to automate this process of identification. With an objective to gather insights on the factors that are impacting the persistency, it is necessary to build a classification for the given dataset, using the variable 'Persistency\_Flag' as target variable and other attributes as prediction variables.

### Project Lifecycle

Two weeks—deadline (13/11/2022)

### Data Intake Report

Name: Healthcare – Persistency of a drug

Report date: 11/12/2022

Internship Batch: LISUM11: 30

Version:<1.0>

Data intake by: Fabian Umeh, Rukevwe Ovuowo, and Olutayo Oladeinbo

Data intake reviewer: Group members

Data storage location: [Github](#)

Tabular data details:

Total number of observations: 3424

Total number of files: 1

Total number of features:69

Base format of the file: .csv

Size of the data: 898 KB

## PROBLEMS IN DATA (Week 8)

### 1.1 Missing values:

The dataset didn't contain any null values. Hence we just proceeded to encoding the columns.

### 1.2 Approach:

In order to encode the data, the label encoder library was imported which we applied on our non-numeric columns.

*Import LabelEncoder library*

```
6 #Data Encoding
7 from sklearn.preprocessing import LabelEncoder
```

*Encode our target column y*

```
1 # Select our Dependent variable 'Persistency_Flag'
2 y = data.Persistency_Flag
```

```
1 y[:5]
```

```
0    Persistent
1    Non-Persistent
2    Non-Persistent
3    Non-Persistent
4    Non-Persistent
Name: Persistency_Flag, dtype: object
```

```
1 # Now that we have selected our dependent and independent variable,
2 # It is important to note that we need to encode our columns as computer only works well with numerical data
3 # Since we already have a dataset with 60 columns, using pandas One-Hot-Encoding wouldn't be smart.
4 # Hence, we use the LabelEncoder library.
```

```
1 #Create an object of the Label Encoder Library
2 le = LabelEncoder()
```

```
1 # Encode our target column
2 y = le.fit_transform(y)
```

```
1 y[:5]
```

```
array([1, 0, 0, 0, 0])
```

