# **<Pxxx- Patient's Condition Classification Using Drug Reviews>**

**Business Objective:**

**This is a sample dataset which consists of 161297 drug name, condition reviews and ratings from different patients and our goal is to examine how patients are feeling using the drugs their positive and negative experiences so that we can recommend him a suitable drug. By analyzing the reviews, we can understand the drug effectiveness and its side effects.**

**The dataset provides patient reviews on specific drugs along with related conditions and a 10 star patient rating reflecting overall patient satisfaction.**

**So in this dataset, we can see many patients conditions but we will focus only on the below, classify the below conditions from the patients reviews**

**a. Depression**

**c. High Blood Pressure**

**d. Diabetes, Type 2**

**Attribute Information:**

**1. DrugName (categorical): name of drug  
2. condition (categorical): name of condition  
3. review (text): patient review  
4. rating (numerical): 10 star patient rating  
5. date (date): date of review entry  
6. usefulCount (numerical): number of users who found review useful**

**Acceptance Criterion:**

Need to deploy the end results using stream lit / Flask / Heroku.

**Milestones:**

**35 - 40 days to complete the Project**

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| **Milestone** | **Duration** | **Task start - End Date** |
| Kick off and Business Objective discussion | 1 day | 14-04-2025 |
| Data set Details | 1 Week – 1 ½ week | 17-04-2025 |
| EDA | 1 Weeks – 1 ½ week | 21-04-2025 |
| Model Building | 1 Week – 1 ½ week | 28-04-2025 |
| Model Evaluation | 1 week | 05-05-2025 |
| Feedback |
| Deployment | 1 Week | 12-05-2025 |
| Final presentation | 1 day | 19-05-2025 |

Protocols:

\*\* Documents to submit–

1. Data set used
2. Python files
3. Deployment files
4. Presentation
5. 2 to 4 minutes of video by explaining the project

\*\* All the participants must attend review meetings, if anyone didn’t attend more than 2 meeting will be removed from the project.