

Week 7: Deliverables

Group Name: Medical Data Science

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Problem Statement:

One of the challenges for all Pharmaceutical companies is to understand the persistency of a drug (*the extent to which a patient adheres to the time interval for drug intake*) as per the physician's prescription. To solve this problem, ABC pharmacy company approached an analytics company to automate this process.

ML Problem:

Given the objective to gather insights on the factors impacting the persistency, we build a classification model on the given healthcare dataset to analyze the persistency of a drug and help ABC pharmacy easily solve this problem.

Target_Variable: Persistency_Flag

Task:

- Problem understanding
- Data Understanding
- Data Cleaning and Feature engineering
- Model Development
- Model Selection
- Model Evaluation
- Report the accuracy, precision and recall of both the class of target variable

- Report ROC-AUC as well
- Deploy the model
- Explain the challenges and model selection