



Data Science Intern at Data Glacier

Project: Healthcare - Persistency of a drug

Week 7: Deliverables

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1. Problem Description

Persistence represents the time (e.g., days, months, years) over which a patient continues the treatment. For practical reasons, it might be assessed according to the time taken for a patient to fill their prescription and can capture both the timeliness and frequency of refilling. In reality, as defined by the adherence taxonomy, adherence is a dynamic behaviour, consisting of initiation, implementation and discontinuation phases of treatment that vary over time, resulting in periods of persistence and non-persistence. Therefore, rather than measuring the specific components of adherence, we could measure persistence, which captures the chronology of adherence and enables us to examine and understand patterns of medication-taking behaviour. For that this project aims to build an automated classifier that predict whether a patient was persistent or not.

2. Business understanding

Persistence is an important measurement that may directly impact the clinical and economic outcomes related to the use of medications for treating chronic diseases.

3. Project lifecycle



