Approach:

1) First, it was important to gather information about the data as much as possible before making positive and negative examples.

Feature Engineering:

- 1) My approach was to basically group by the data as per Patient-Uid. Grouping would have definitely reduced the information so we needed to build some new features that contain the fluctuation. such as total sums/ division of two features and etc
- 2) So I went on extracting as much as possible information from the Incident section like finding the total frequency of Incidents, totally different types of drugs/symptoms/test types per patient, and the total number of months patient has been medicated and grouped it as per Patient-Uid
- 3) From the above features, I came to know that most of the patients who at least had one target drug had fewer symptoms and more number total drugs
- 4) After that to avoid data loss I performed some division between features like finding incidents per month, drugs per incident, and so on
- 5) The only strategy I can come with is clustering for labeling data as I thought patients who have got at least once in their life are somewhat similar in terms of symptoms per-incident and some features so I clustered the data and labeled it
- 6) After clustering, I took the positive as the cluster having a higher number of patients who took TARGET drug at least once in lifetime
- 7) Drew pair plot and saw the distribution of the features can come up with tree ML models as best fit