Group members

Eranga Kumanayake (0787857)

Grace Aniyankunju (0792039)

Luis Palacios (0802103)

Neha Dewangan (0768997)

Sagarkumar Parmar (0769644)

Week Meetings

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Time** | **Duration** | **Location** |
| Feb, 8th 2023 | 11:30am | 1,5 hrs | Teams |
| Feb, 8th 2023 | 2:00pm | 2 hrs | St Clair Campus |
| Feb, 10th 2023 | 10:00am | 3 hrs | St Clair Campus |

Agenda items

1. Explore the datasets (DPD, Clinical datasets, Drug shortage databases).
2. Worked on EDA, create graphs.
3. Diagrams to show relationship between the tables.
4. Discuss about the problem which we are going to solve.
5. Discuss about the creation of chatbot.

|  |  |  |  |
| --- | --- | --- | --- |
| **Action Items** | **Owner(s)** | **Deadline** | **Status** |
| Load data into Tableau and explore all the tables of the relationships from the DPD data base.  Explore the topic related to how long new medicines take to reach Canadian patients, based on the DPD Canadian drug list. | Luis | 2023/02/09 | **In Progress** |
| Prepare EDA version 1 related to four main tables from repository DPD: drug table, company, ingredients, and status. Concentrate all tables of the approved products, marketed products, cancelled, and dormant products into a single database for all 4 tables mentioned.  Some Assessment for Data Quality, main features of each table | Neha | 2023/02/09 | **In Progress** |
| EDA along with exploration of datasets. Research on various papers found a few more datasets related to DPD, namely, Drug Shortage Dataset and clinical datasets. We can see that every paper found has used the DPD dataset to track the shortage of drugs using the DIN code of each drug in the DPD dataset. They could figure out which drug would run out later in the future. | Eranga  Sagarkumar  Grace | 2023/02/09 | **In Progress** |

Challenges/disagreements

Incorporate external stakeholder’s according to their need such as shortage of medicine and drugs, how long take new medicine reach patients in Canada, and get some findings

Incorporated automatized tools like a chatbot that can allow getting simplified answers related to drugs, ingredients, or any prescription in Canadian territory.

Run benchmarks over other countries like the US or some European countries about how long takes for the release authorization of new products, bio equivalents drugs policies authorizations, or the distribution capacity to hospitals, pharmacies, and community-related organizations.

Next meeting challenges

|  |  |
| --- | --- |
| **Next Meeting Action Items** | **Owner(s)** |
| * We are thinking of creating a chatbot for our project. | Eranga  Sagarkumar |
| * Also, to merge the other datasets we found recently with the existing dataset, to get more informative data and have a bigger view on how informative our tableau presentation will be. | Luis |
| * We are also searching for more problems/issues which we can solve using the data | Grace  Neha |

Next meeting date

2023/02/15

<https://github.com/nehad2909/drug-product-database-health-canada>