Natural language processing (NLP)

Drug Review

Introduction

This project about analysing reviews made by various patients for specific drugs on different pharmaceutical review sites and we do Natural language processing (NLP).

Business problem

help the drug manufacturers understand the sentiments behind thousands of reviews from patients in more efficient and quicker way that can help them in making decisions to improve their drugs.

Dataset

Dataset source: from Kaggle website.

Size of Data: 161297 rows 7 columns.

Data description

1. **uniqueID**: Unique ID.
2. **drugName**: Name of drug.
3. **condition**: Name of condition.
4. **review**: Patient review.
5. **rating**: 10 star patient rating.
6. **date**: Date of review entry.
7. **usefulCount**: Number of users who found review useful.

Models

- K- Means & Hierarchical
- Topic modelling
- Classification models (Logistic Regression - Naive bayes - decision tree)
- Recommendation System

Tools

Team Members

- Eman Abdullah
- Munirah Alzahrani
- Nasser Alqurini
- Raghad Alnasser
- Shaima Alzahrini