

Click here to access full notebook.

### Data exploration *₽*

The data comes from Drugs.com and is accessed through UCI's website.

![Ratings distribution]('./Images/Ratings distribution.png')

Click here to access data. Data was sourced by Kalummadi and Grer.

Ratings are not normally distributed. Counts are highest at the worst and best ratings.

- 160,000 samples
- 800 unique conditions
- 3400 unique drugs

# Data understanding/preprocessing @

• Tokenizing and creating the tf-idf matrix.

## Data modeling @

- Baseline Decision Tree model (TF-IDF)
- linear regression (TF-IDF)
- Word embedding models.

## **Results/conclusions** *₽*



### Recommendations/future work @

- Deployment linear regression (TF-IDF) for 'rating extraction' from written review.
- Gather insights on how patients rate drugs.
  - o "doctor, love, worse" etc.
- Combine the tf-idf and word embedding models.
- Use the "meta-data" as features. (i.e. the drug evaluated)

#### **Repository structure** *⊘*

- Notebook
- README
- Presentation
- data