## # Background Information A hospital or insurance provider is interested in efficiently extracting numeric ratings from patients' written review. To this end we build a model using labelled, numerically, patient reviews. # Data exploration The data comes from Drugs.com and is accessed through UCI's website. ![Ratings distribution]('./Images/Ratings distribution.png') 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 modelling - Baseline model (TF-IDF) with linear regression - Decision Tree regression models - Word embedding models. # Results/conclusions ![rmses]('./Images/rmses.png') ## Conclusions

- Deployment for 'rating extraction' from written review.

- Gather insights on how patients rate drugs.

- "doctor, love, worse" etc.