Natural Language Processing on

TED Talks
Ideas worth spreading

Motivation

- TED Talks
 - Online Influential videos
- Leverage NLP capabilities
 - Topic Modeling
 - Sentiment Analysis
- Predict views
 - Linear regression



Data

- Kaggle
 - 2467 talk transcripts
 - o 2006 to 2017
- Preprocessing
 - Regex
 - NLTK
- Topic Modeling
 - Tfidf and NMF



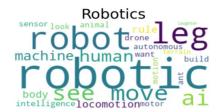
Topic Modelling







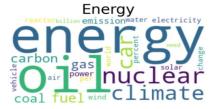




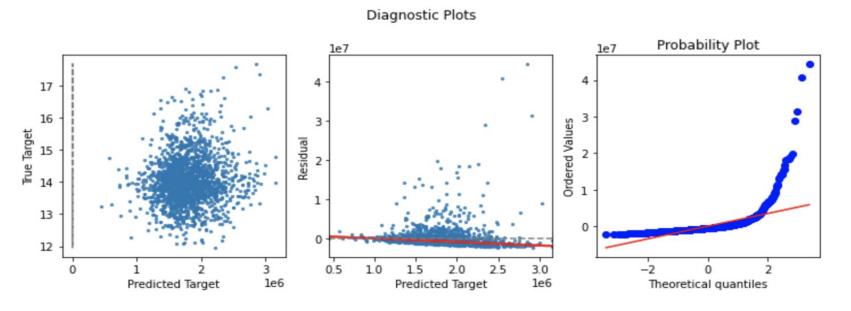






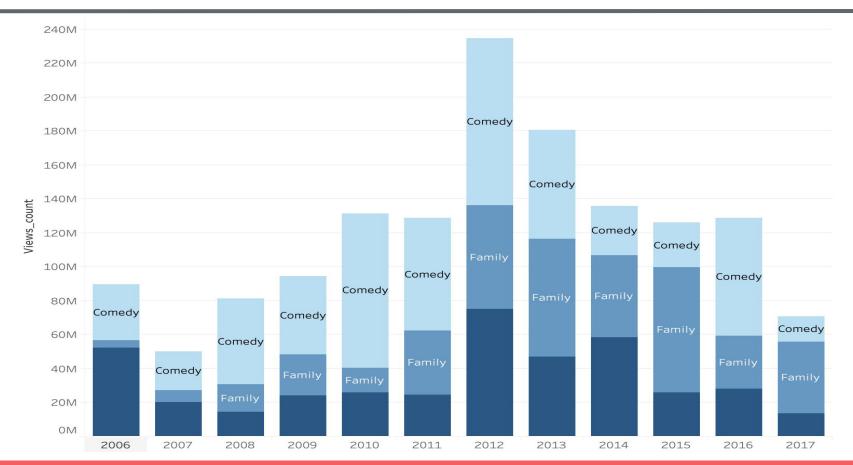


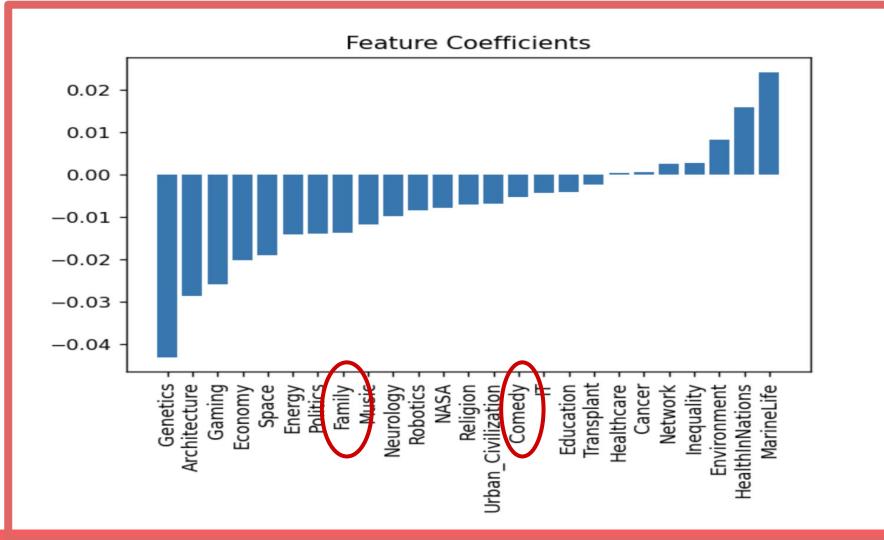
Linear Regression with log transformation



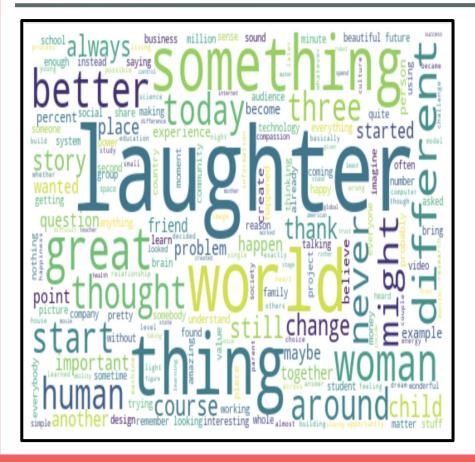
R2: 0.003 RMSE: 2581606

Top Topics





Sentiment Analysis





Future Work

- Try other regression models
- More NLP techniques
- Recommendation Engine

Thank you!