WHAT MAKES TED TALKS WORTH SPREADING?

Exploration of the linguistic and text features of TED video transcripts

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GOALS

- Predict the number of views for each video.
- Build a classifier in order to predict the gender of the presenters.
- Create a classification model to accurately classify the multiple topic tags of each video from text (bag of words).

DATASET

Shared on data.world - Words of Persuasion: Text Predictors of Persuasive TED Talks*

2406 TED Video Transcripts & Other Video Features

Total 187 Features including:

Linguistic Inquiry Word Count (LIWC) **Morality Word Counts**



VIDEO TOPICS



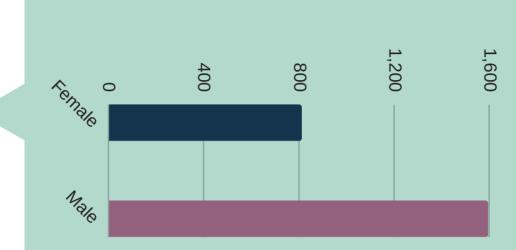






Unique tags in the original dataset

Reduced to 22 for multi label classification







gender-guesser library genderize.io

manually looking up the names



PREDICTION MODELS

VIEW PREDICTION



GENDER PREDICTION



TOPIC CLASSIFICATION



Best Model





Baseline Accuracy

0.67

Model Accuracy

0.72

	Precision	Recall
Female	0.61	0.39
Male	0.75	0.88

TextBlob

Lemmatized

CountVectorizer

Tf-idf transformer

see one thinks say start take worlder solot really six one work to the say start to the say

R-Squared

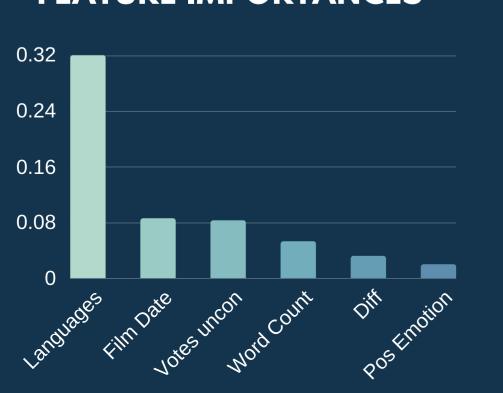
0.55

RMSE

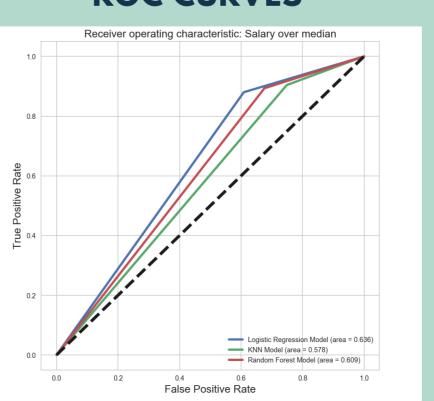
0.68

OneVSRestClassifier(KNN) Precision Accuracy 0.39 0.37 0.293 0.278 0.195 0.185 0.098 0.093

FEATURE IMPORTANCES



ROC CURVES



PRECISION - RECALL CURVES

