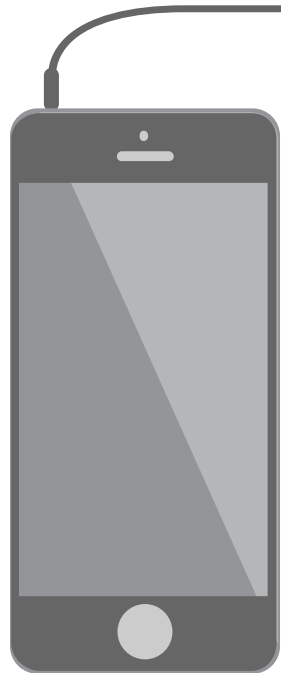


Reviews For iPhone SE NLP



Teams:
Lama Alziyad & Kholod alshehri

Outline



01

Introduction

02

EDA

03

Topic Modeling

04

Models

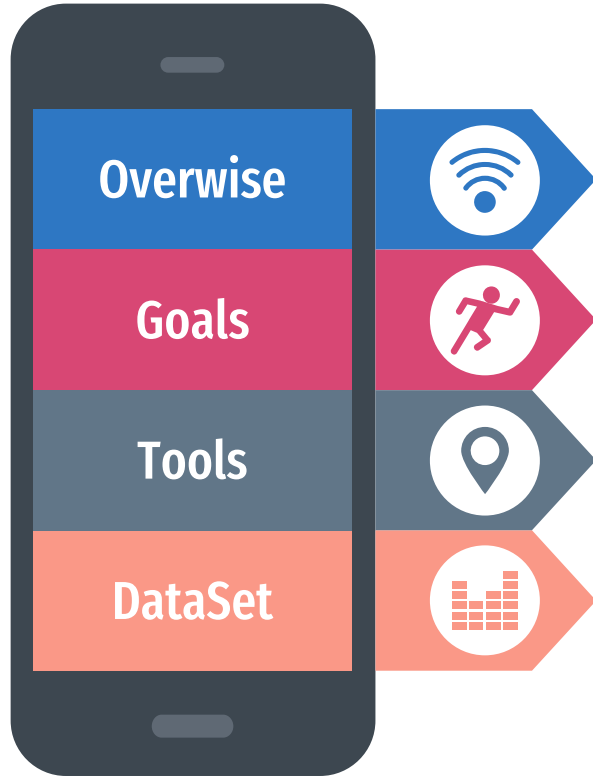
05

Clustering

06

Conclusion

Introduction



The are sentiment analysis about I phone SE

Our goal is to build NLP to reviews about
i phone SE is positive or negative

We use tools is : pandas, NumPy, SpaCy, NLTK,
matplotlib, Jupyter, HTML, Seaborn, Python

The Data size is 9713 x 3 and 3 Columns it is (Rating, Comments, Reviews)

After: 9049 x 2

EDA and Pre-processing

Data Cleaning

- Drop comments
- Drop duplicated

Lemmazation



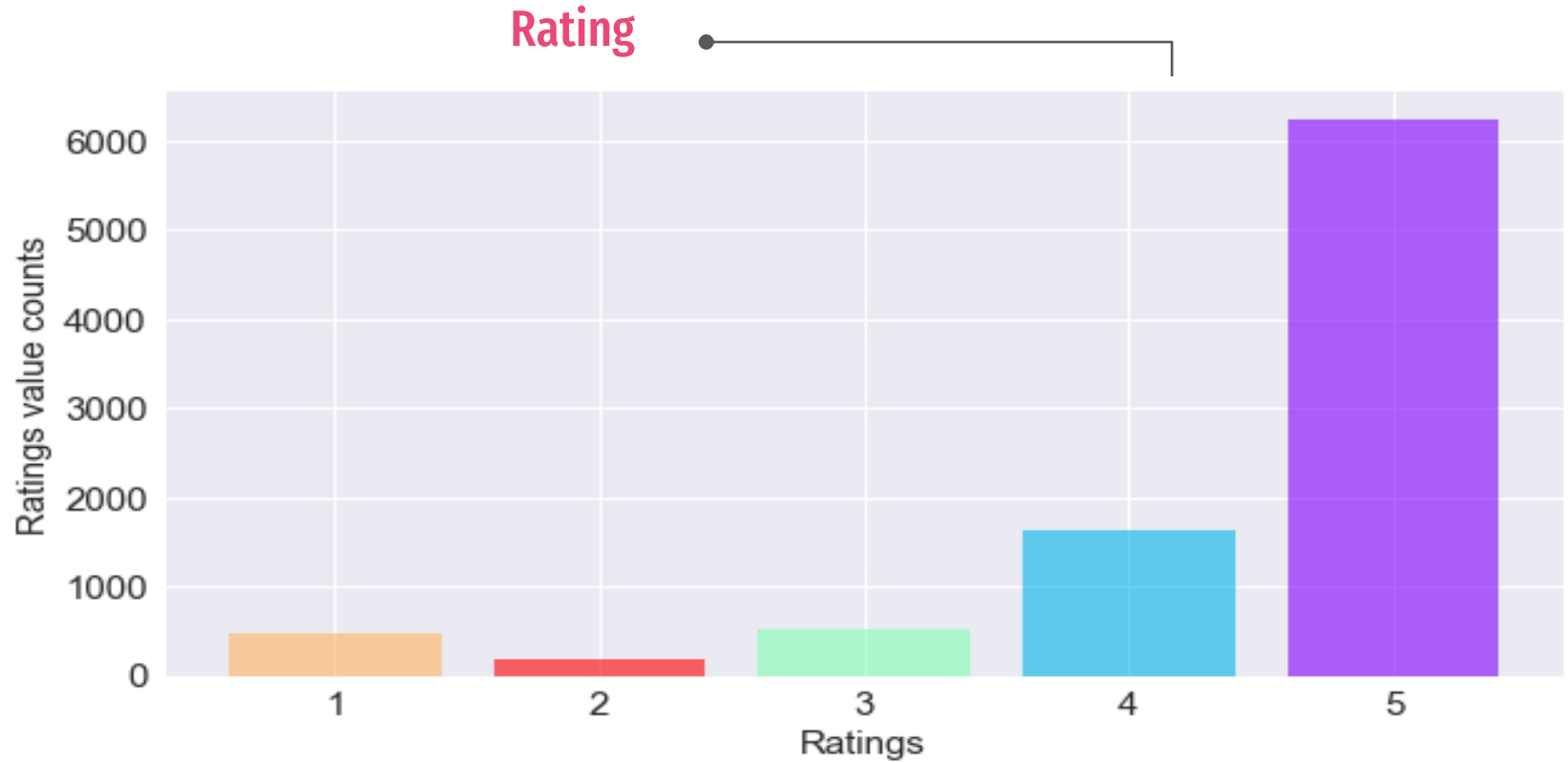
Vectorization

CountVectorizer

Tokenization

NLP Pipe
ADV
None
Verb

Data Analysis



Fauters Engineering

Positive

Add new columns it is
sentiments more than and
equal 3

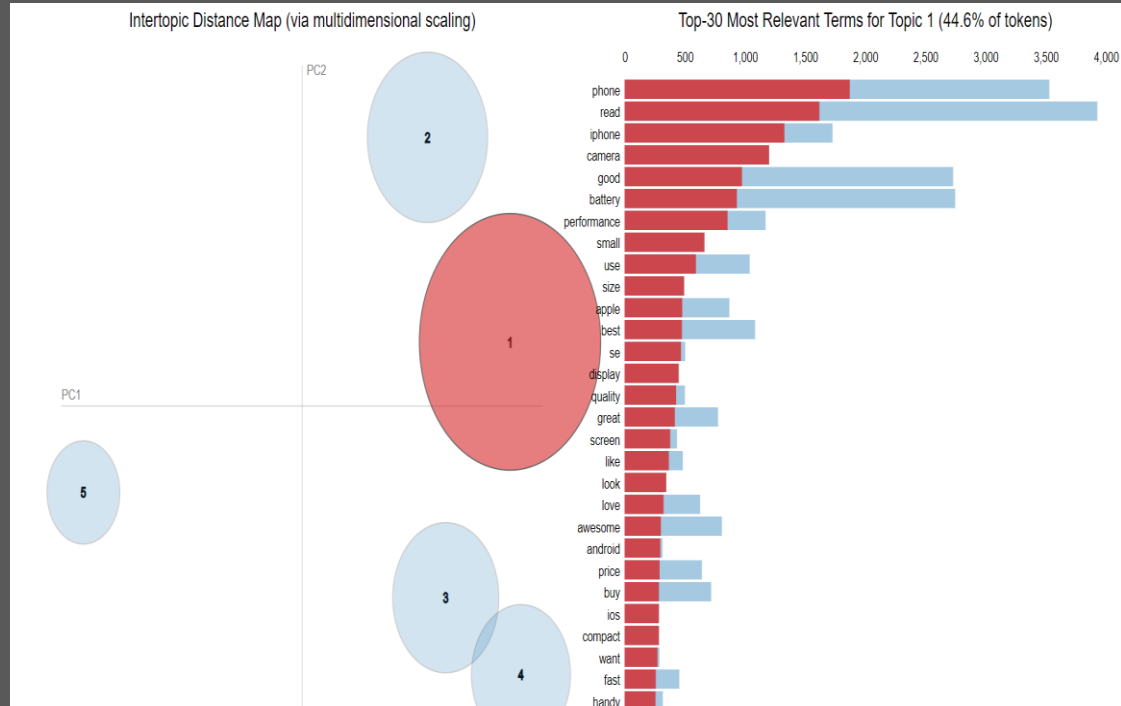


Negative

Add new columns it is
sentiments less than 3

Topic LDA

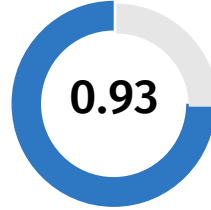
pyLADvis



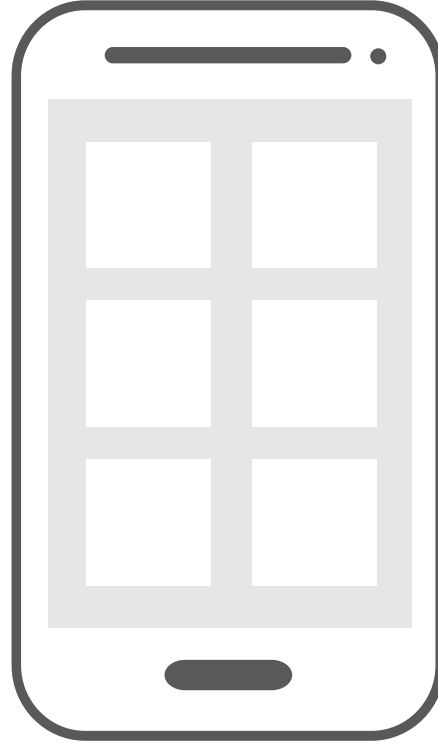
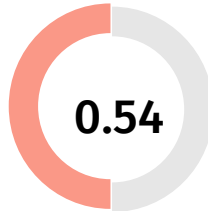
Classification Modeling

Accuracy Score

Random Forest

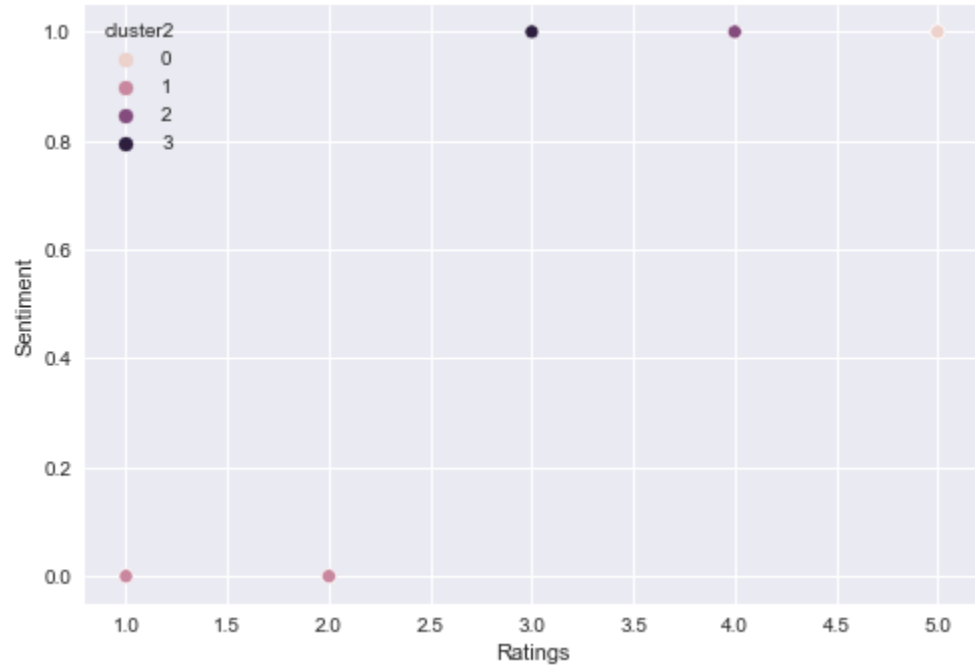
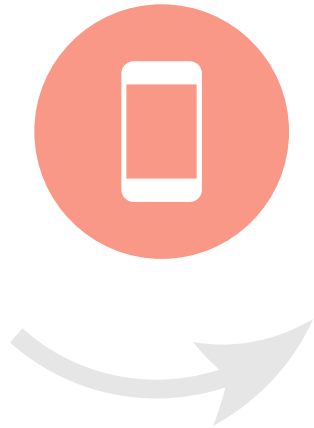


Naive Bayes



Clustering

Kmeans:



Tools



NLTK



Spacy

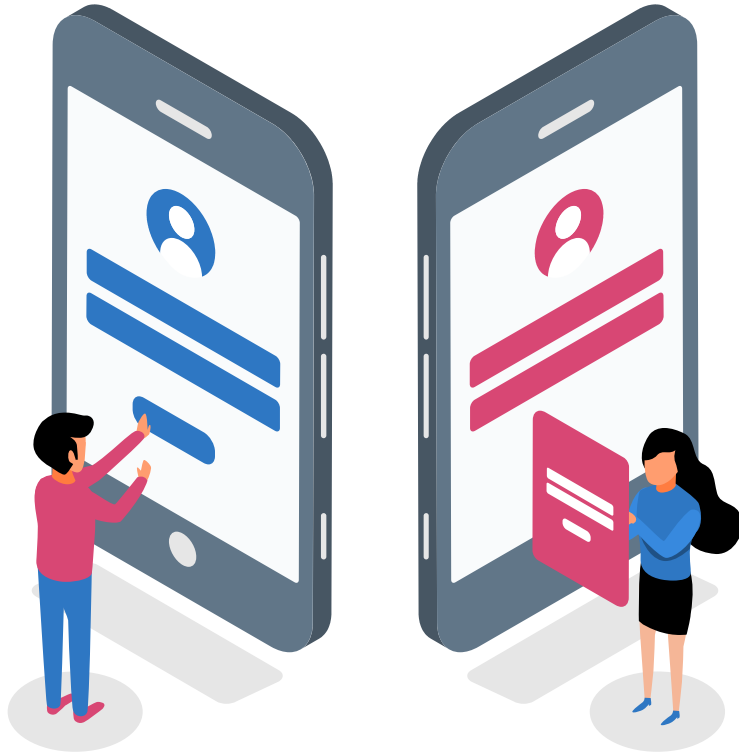
Word Colud



pyLADvis



Conclusion



Random Forest

Accuracy: **93%**



Any Questions?

Please Say No ☹️