

Global News Feeds

Sunday 21/11/2021

Newsletter

Edition: 001

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Introduction

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Global News is a collection of the most current news around the world, include news websites, government agencies, tech journals, company websites, etc. In this project we aim to build a model that predict the most topic published over the news.



Problem statement

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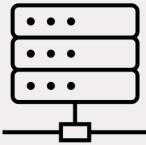
Given a global news in different languages , we are challenged to discover the topics that occur in a collections of articles.

DATA

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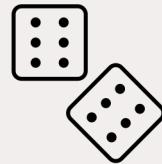
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DATASETS

Global News Feeds
&
Language Identification
dataset



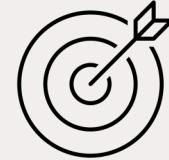
SIZE

3,305,325 rows
&
22,000 rows



TIME

The two dataset
between at
2017 - 2018



SOURCE

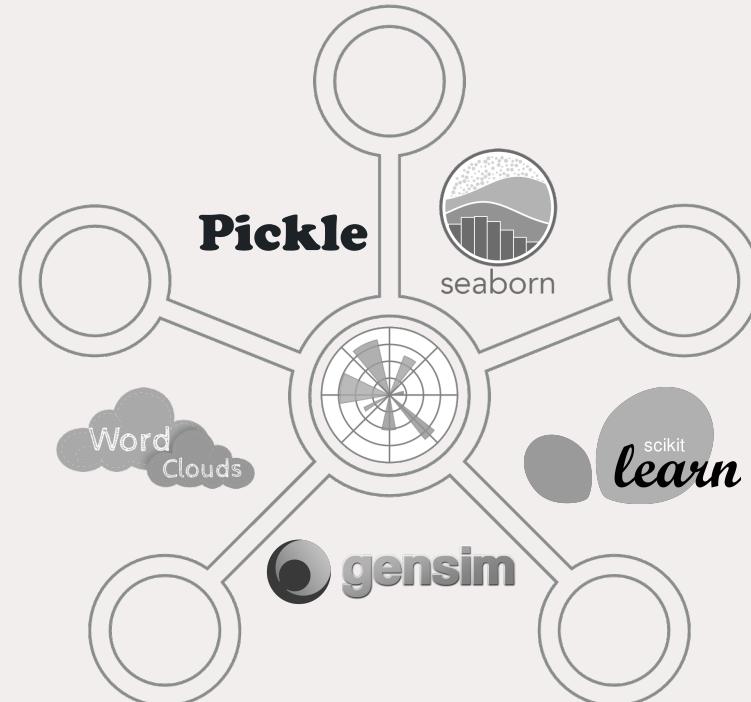
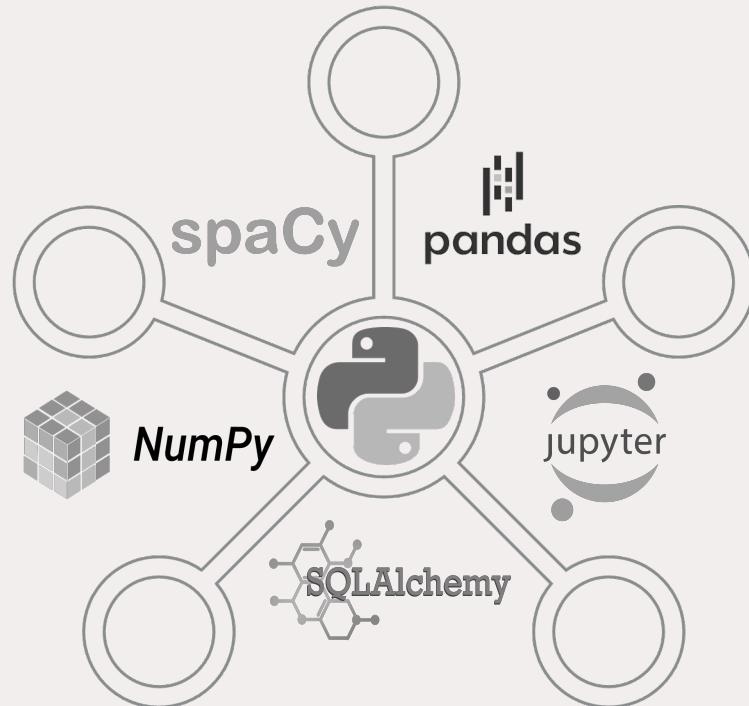
[Kaggle](#)

Technologies and libraries

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Workflow

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Workflow

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DATA Preprocess

- Drop Unnecessary Columns
- Rename Columns
- Dataset Concat

EDA

- Drop Duplicates
- Drop Unnecessary Columns
- Check Null
- Apply spacy Lemmatization

Dimensions Reduction

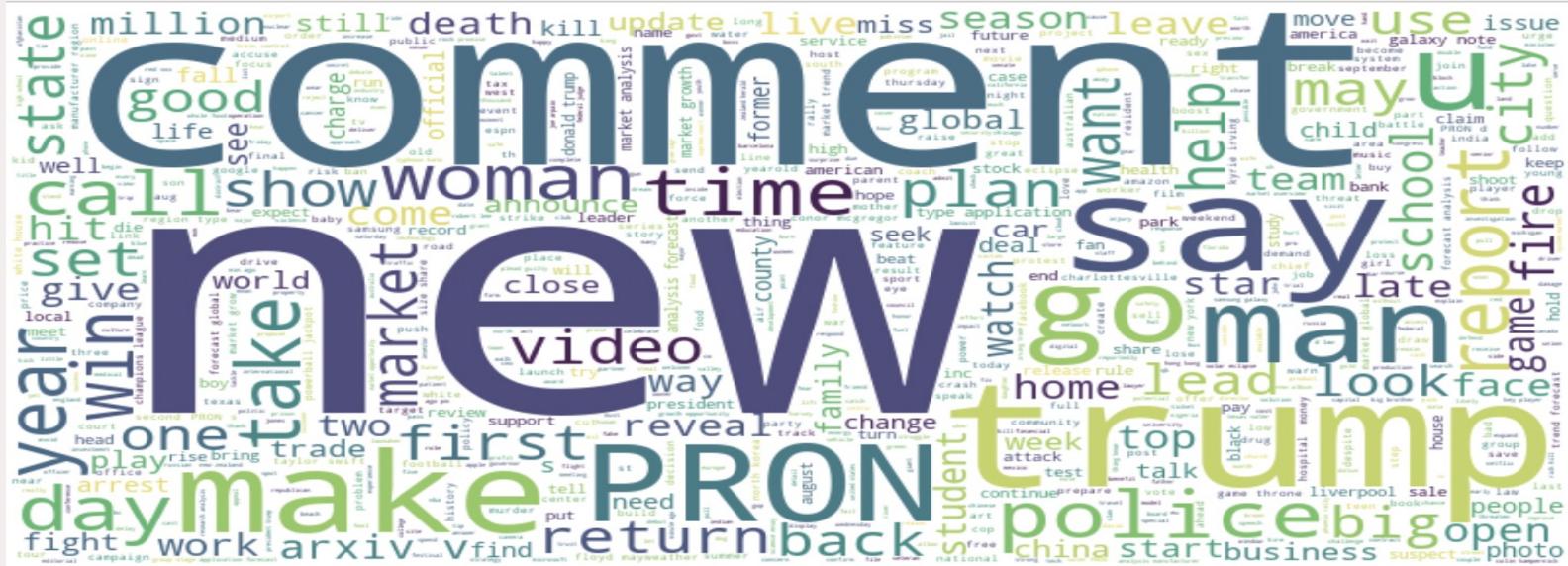
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Principal Component Analysis (PCA)

Term Frequency-Inverse Document Frequency (TF-IDF)



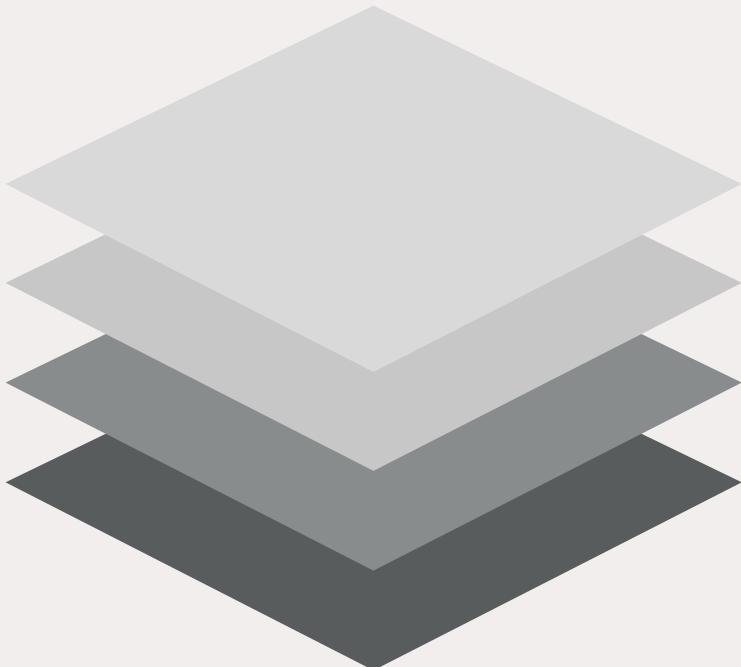
Topic Modeling & Clustering

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k-means



Political.

Culture and Society.

Cases and Accidents.

Humanities.

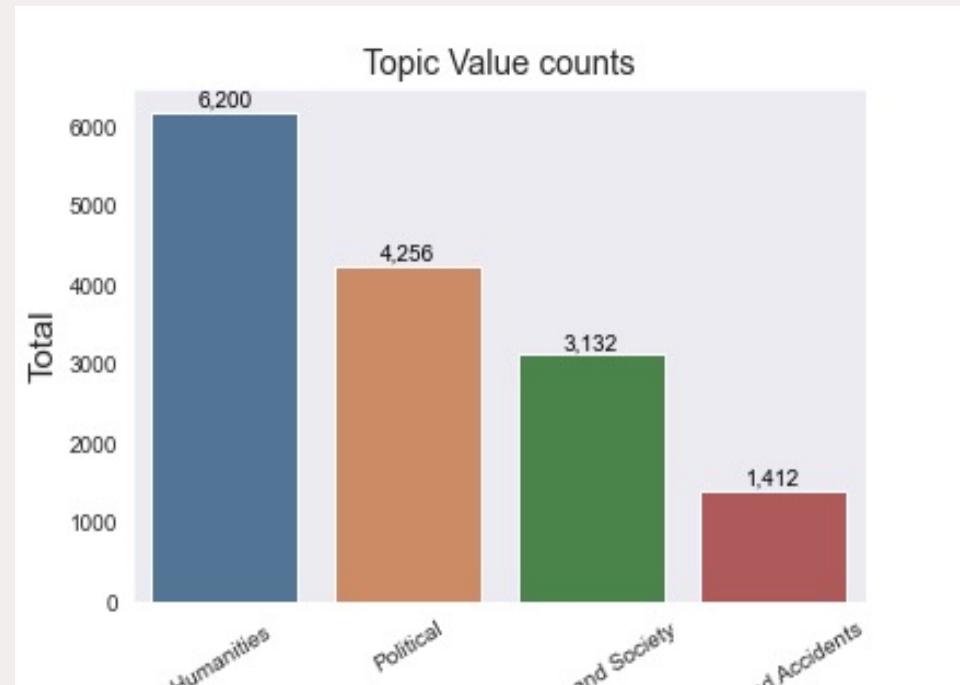
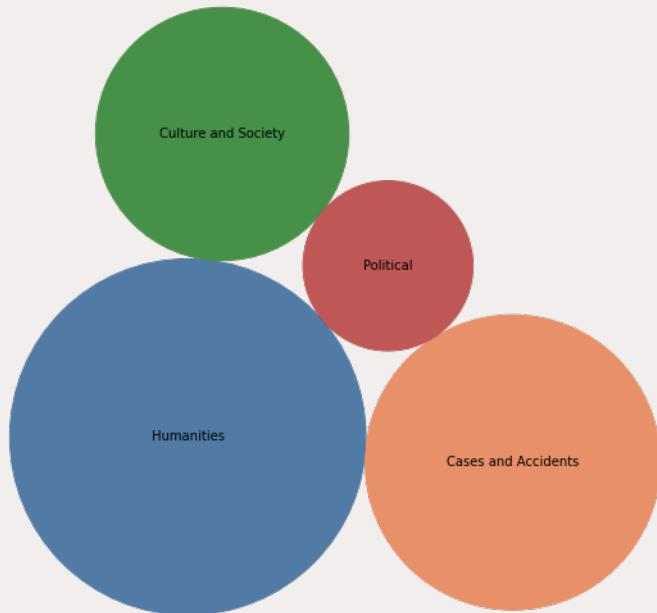
Global News Topics

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Most Discussed Topic by PCA



Conclusion

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Based on our global news articles, most of the topics fall under Humanities, Cases - Accidents , Culture - Society and Political.

Future Work

Accurately classify global news on several different topics.

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THANKE YOU !

