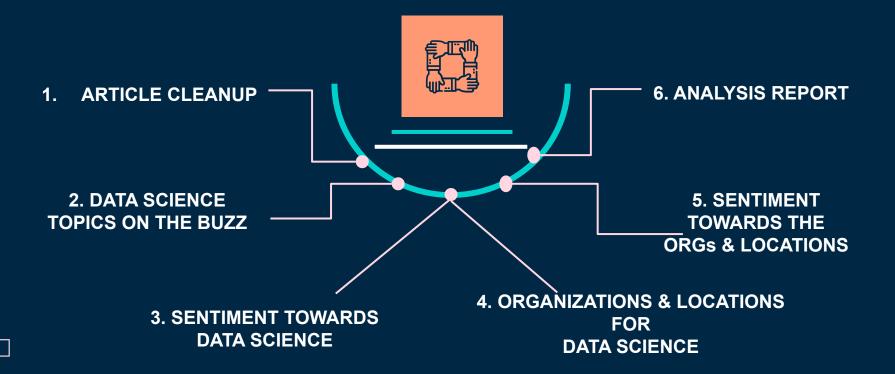


## **CHAPTERS**



### **ARTICLE CLEANUP**

#### **Feature Used**

- □ Text
- The text also has **title** included in it.
- It will give more context and information about the news.

#### **NOISE CLEANING**

Lowercasing

Removing HTML tags, URLs and web crawl remnants

Removing punctuations, digits

Removing symbols and non-printable characters

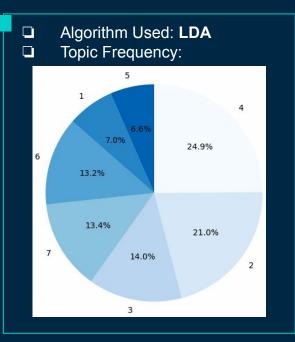
Removing newlines, tabs and extra white spaces

#### PRE-PROCESSING

Removing Stopwords

Lemmatization using WordNetLemmatizer()

## **Data Science Topics on the Buzz**

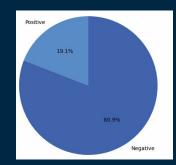


Topic	Description
Topic 1	New findings in Artificial Intelligence and Machine Learning
Topic 2	Al for issues worldwide
Topic 3	Al in product service companies
Topic 4	Al in Health Industry
Topic 5	Al in Video Games Industry
Topic 6	Al and technology used by customer-centric companies
Topic 7	Al and the stock market

## Sentiment Towards Data Science

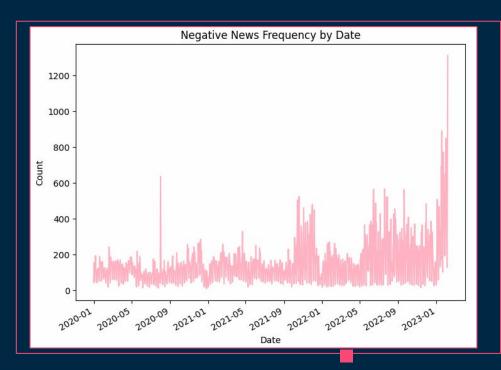
#### Overview

□ Algorithm Used: biGRU□ Sentiment Frequency:



The negativity seem to have increased over time. But this is due to the fact that the usage of data science has increased too.

#### Negative Sentiment over Time

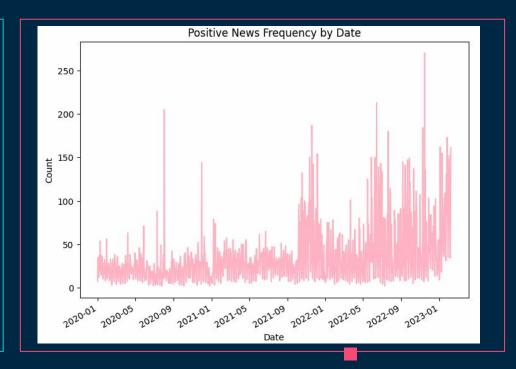


### **Sentiment Towards Data <u>Science</u>**

#### Overview

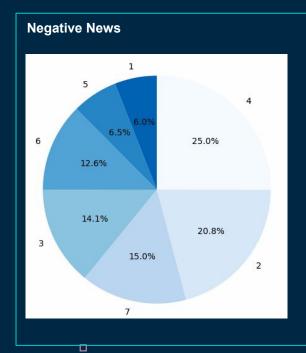
- The positivity seem to have increased over time. But this is due to the fact that the usage of data science has increased too.
- □ Positivity is observed to be much stronger than negativity towards data science as time passes by; especially towards the last quarter of 2021.

#### Positive Sentiment over Time

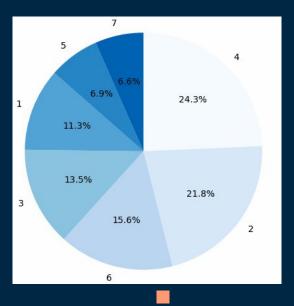


## **Sentiment and Topic Analysis**

By Sentiment



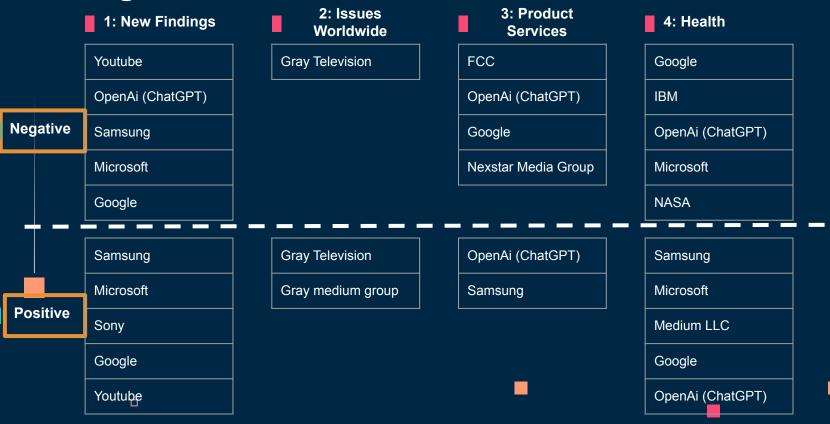
#### **Positive News**



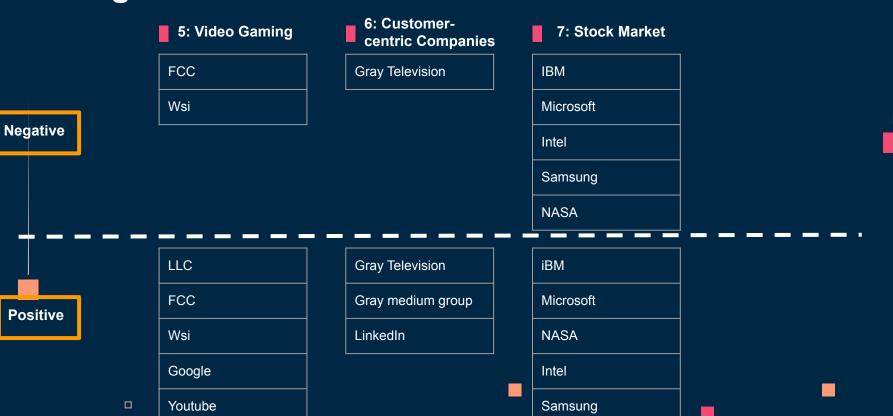
#### **Observations**

- ☐ Topic 4 ( Video Games) has the highest percentage of negativity as well as positivity.
- As data science is receiving more light day by day, it is not shocking to see that there is different perspectives on every time.
- Hence, similar levels of positivity and negativity is observed for all the topics.

## **Organisations for Data Science**



## **Organisations for Data Science**



### **Locations for Data Science**

India

France

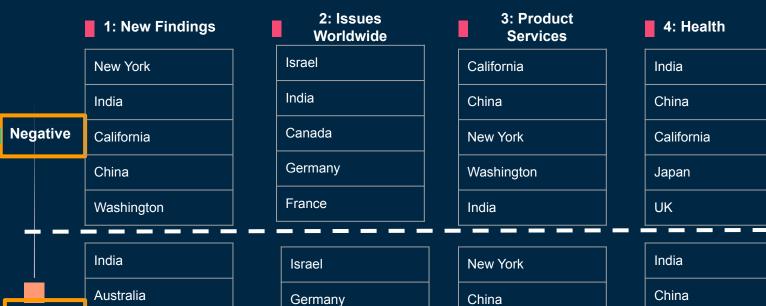
Texas

**Positive** 

**New York** 

Japan

Canada



India

California

London

Singapore

Japan

Australia

### **Locations for Data Science**



## Sentiment of Organisations/ Locations towards DS

#### Organisations

- Australia
- California
- Canada
- ☐ China
- France
- Germany
- New York
- □ Israel

#### Locations

- □ OpenAl (ChatGPT)
- □ Google
- Gray Television
- **I** Intel
- □ Microsoft
- Samsung
- □ IBM
- NASA
- Gray Medium
- ☐ FCC

#### Recommendation

These organizations and the locations have been mostly taken positively about. Hence, working on a data science project in these organisations and at these locations would increase the probability of the success of your project.

### **ANALYSIS REPORT**

- The negativity seem to have increased over time. But this is due to the fact that the usage of data science has increased too.
- Topic 4 (Video Games) has the highest percentage of negativity as well as positivity.
- As data science is receiving more light day by day, it is not shocking to see that there is different perspectives on every time.
- Hence, similar levels of positivity and negativity is observed for all the topics.
- ☐ It is recommended to focus on Artificial Intelligence in product and customer services, health industry, video game industry and stock market.
- Youtube, OpenAl, Google, Microsoft and samsung are investing their resources on innovations in Artificial Intelligence.
- Overall, India, China, Japan, America and Canada are highly active in the field of Data Science.
- ☐ Israel is especially mostly working towards resolving worldwide issues using Artificial Intelligence.
- Singapore is highly focussed towards utilising Artificial Intelligence in improving healthcare whereas UK is highly against the concept of using Artificial Intelligence in healthcare.
- America, especially pennsylvania (Doylestown, Allenstown) is highly involved in using AI in the video gaming industry.

## Factors for Successful Data Science Projects

#### Recommendations

- ☐ Industries and locations (respectively) to focus on :
- Product Services : London, India, New York
- Customer-centric services : Singapore, London, India
- Health Industry : Australia, Singapore, India, China
- Video Gaming: Pennsylvania, Japan, California
- Stock Market : France, Germany India
- □ Companies you should approach for sponsorship with innovative ideas in Data Science:
- OpenAl
- Google
- Youtube
- Samsung
- Sony
- This is because these companies are active in new findings and also in most of the other buzzing topics in Data Science.

Note: The above recommendations have been made using the NER, sentiment analysis and Topic modelling. Selected locations and organisations that have no or less negativity/ more positivity.

# THANK YOU!