



Aldel Education Trust's
St. John College of Engineering and Management, Palghar
NAAC Accredited with Grade 'A'
DEPARTMENT OF COMPUTER ENGINEERING



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Roll no: 70

Sub: SMA

Experiment no. 07

Aim: Develop a dashboard and reporting tool based on real-time social media data.

Code:

```
import pandas as pd
import snsrape.modules.twitter as snstwitter
from google.colab import files
import os
```

```
os.system("snsrape --jsonl --max-results 5000 --since 2023-01-31 twitter-search 'Budget 2023 until:2023-02-07' > output.jsonl")
```

```
tweets_df = pd.read_json('output.jsonl', lines=True)
tweets_df.to_csv()
```

```
# Save the file to the Colab environment
tweets_df.to_csv('output.csv', index=False)
```

```
# Download the file to your local machine
files.download('output.csv')
```

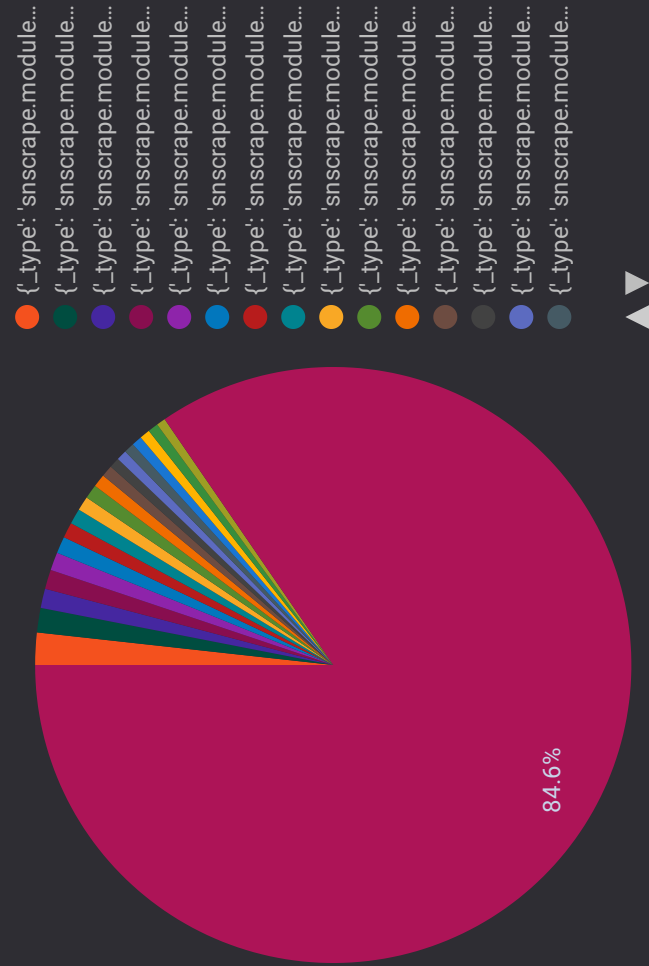
Output:

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Conclusion: Hence we implemented a dashboard and reporting tool based on real-time social media data.

Pie chart

Looker Studio uses the 20th slice to aggregate any remaining user dimensions into the "Other" Category. Percentage of the Card metric by User dimension



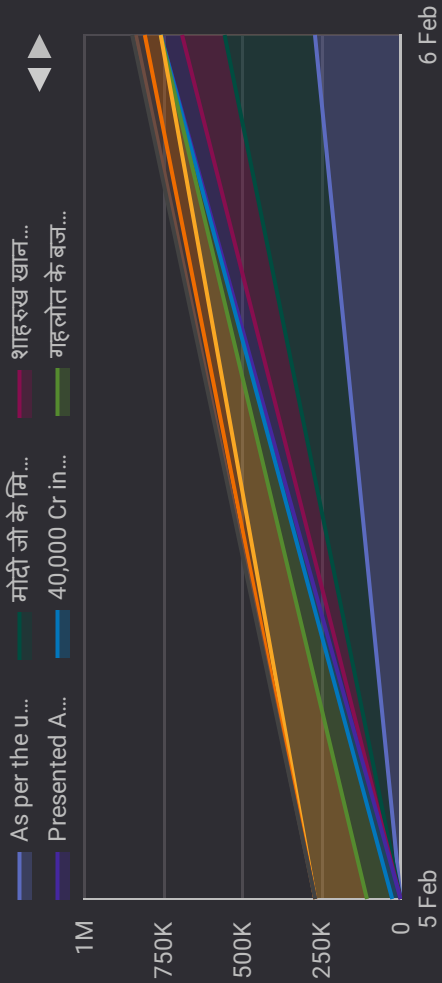
Bar chart

Chart uses a User dimension, Date, to breakdown each medium according to its viewCount of origin Percentage of the viewCount metric by User dimension



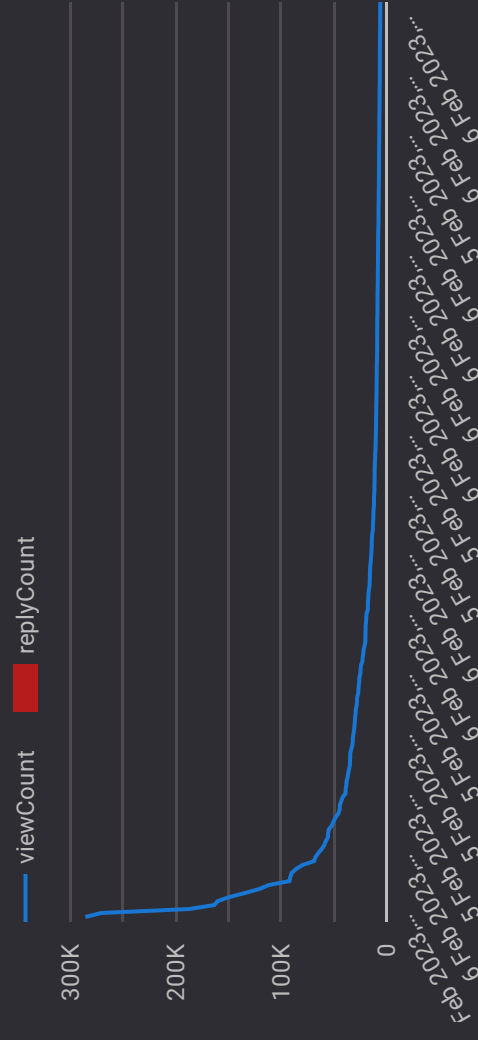
Area chart

The chart shows the content of individual tweet (contained in a content dimension). The metric In charts, there is a viewCount (called viewCount in the data source).



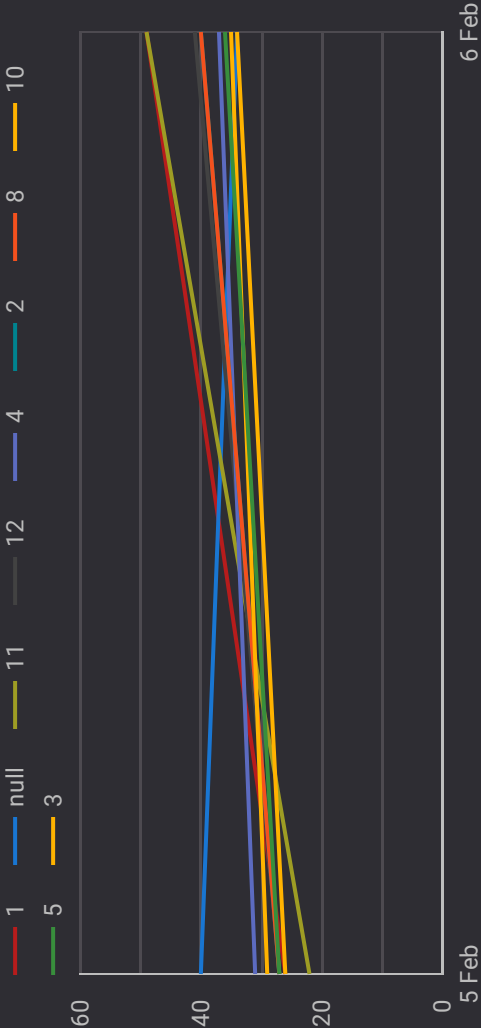
Line chart

The chart uses date as the primary X-axis dimension and shows the viewCount and replyCount metrics.



Time chart

The chart below shows the distribution of date metrics broken down by the viewCount dimension from a Tweeter data source. The chart is filtered to show viewCount and has a date range from 5 Feb to 6 Feb.



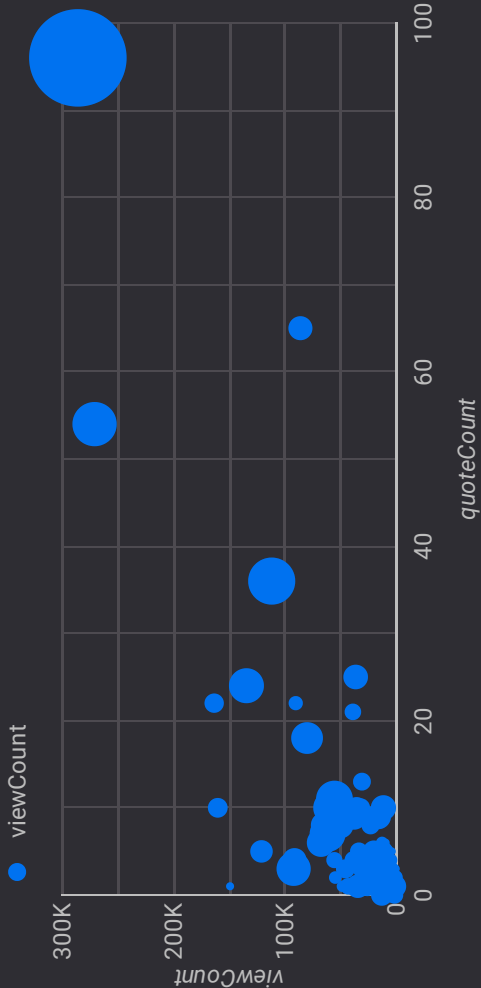
Gauge

The following gauge chart shows the total viewCount for Tweeter over a 8-day period.



Scatter chart

The chart compares the viewCount in tweeter with the quoteCount for each tweet. The linear trendline in this chart slopes upwards from left to right, indicating that there is a positive relationship between quoteCount and viewCount.



Treemap

The treemap below displays the number of viewCount in Tweeter. The branch labels come from the viewCount ("viewCount") and likeCount ("likeCount") dimensions.

