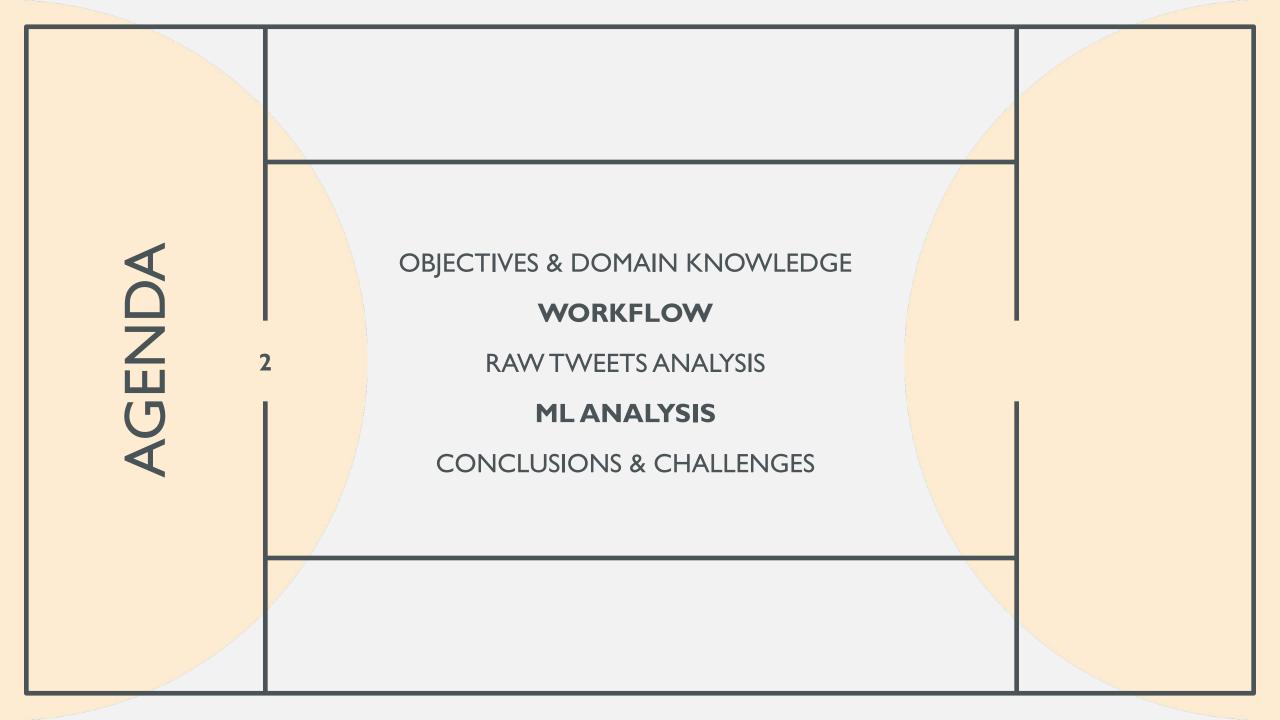
BIG DATA PROJECT: AITWEETS SENTIMENT ANALYSIS Sedera RASOANAIVO

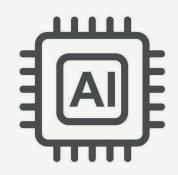


OBJECTIVES:

- Performing Sentiment
 Analysis related to the Al topic
- Creating Dashboard
- Withdrawing Insights.

BACKGROUNDS:

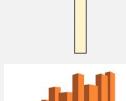
- Artificial Intelligence (AI): branch of computer science that makes machines think and act clever mimicking human
- Al has a range of applications with the potential to transform how we work and our daily lives
- It generates different reaction to people



WecloudData S3 Raw Tweets

My S3
Predictions Tweets





QuickSight

Dashboard

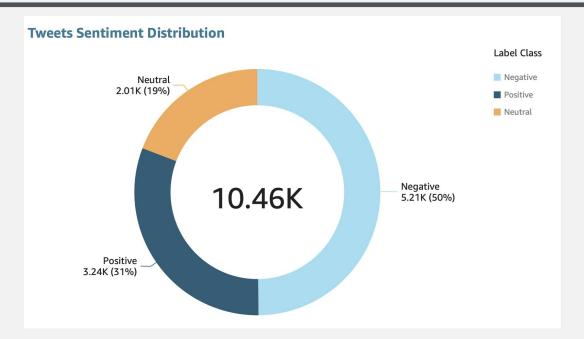
Amazon Athena

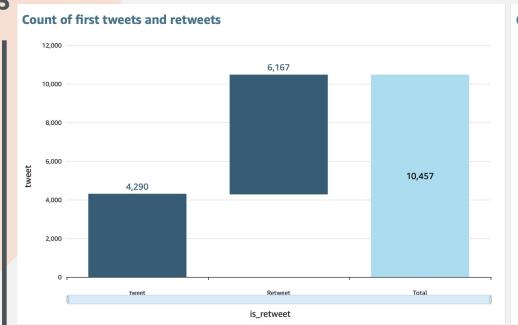
Table Query

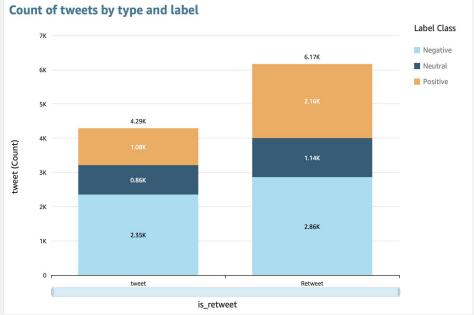
Sdatabricks

ML Sentiment Analysis

4



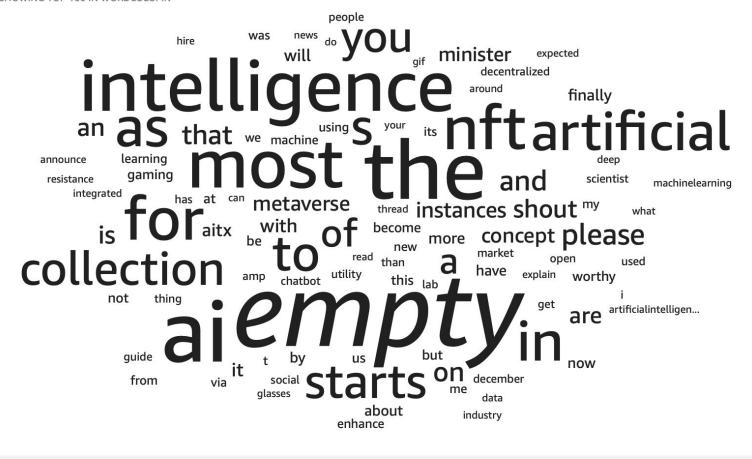


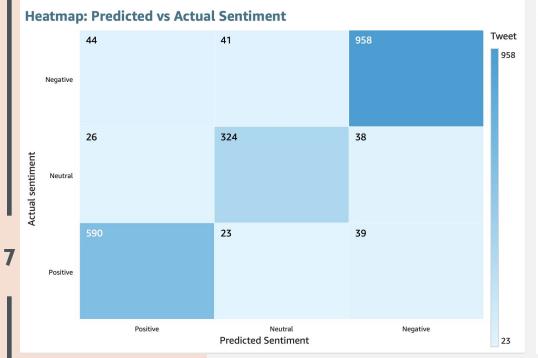


WORDCLOUD

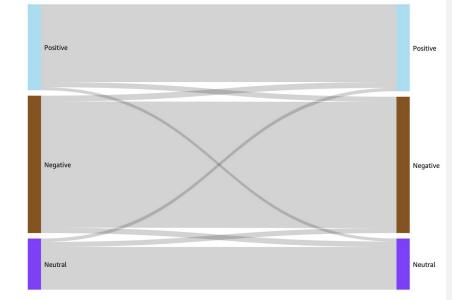
Word Cloud of most frequent words

SHOWING TOP 100 IN WORDCOLUMN





Sankey Diagram: Predicted vs Actual Sentiment



Model	Accuracy	FI Score
Logistic Regression	0.898	0.898
Naive Bayes	0.821	0.819
Random Forest	0.639	0.584

CONCLUSIONS:

- Sentiment mostly negative
- Logistic Regression better than Random Forest
- Good performance on predicting sentiment even without tuning

CHALLENGES:

- Limitation on handling bigger dataset with multiclass: Cluster terminated
- Splitting the tweets into smaller chunks of words in Athena or QuickSight

