



TWITTER SENTIMENT ANALYSIS

2022 AI TWEETS



BACKGROUND & OBJECTIVE

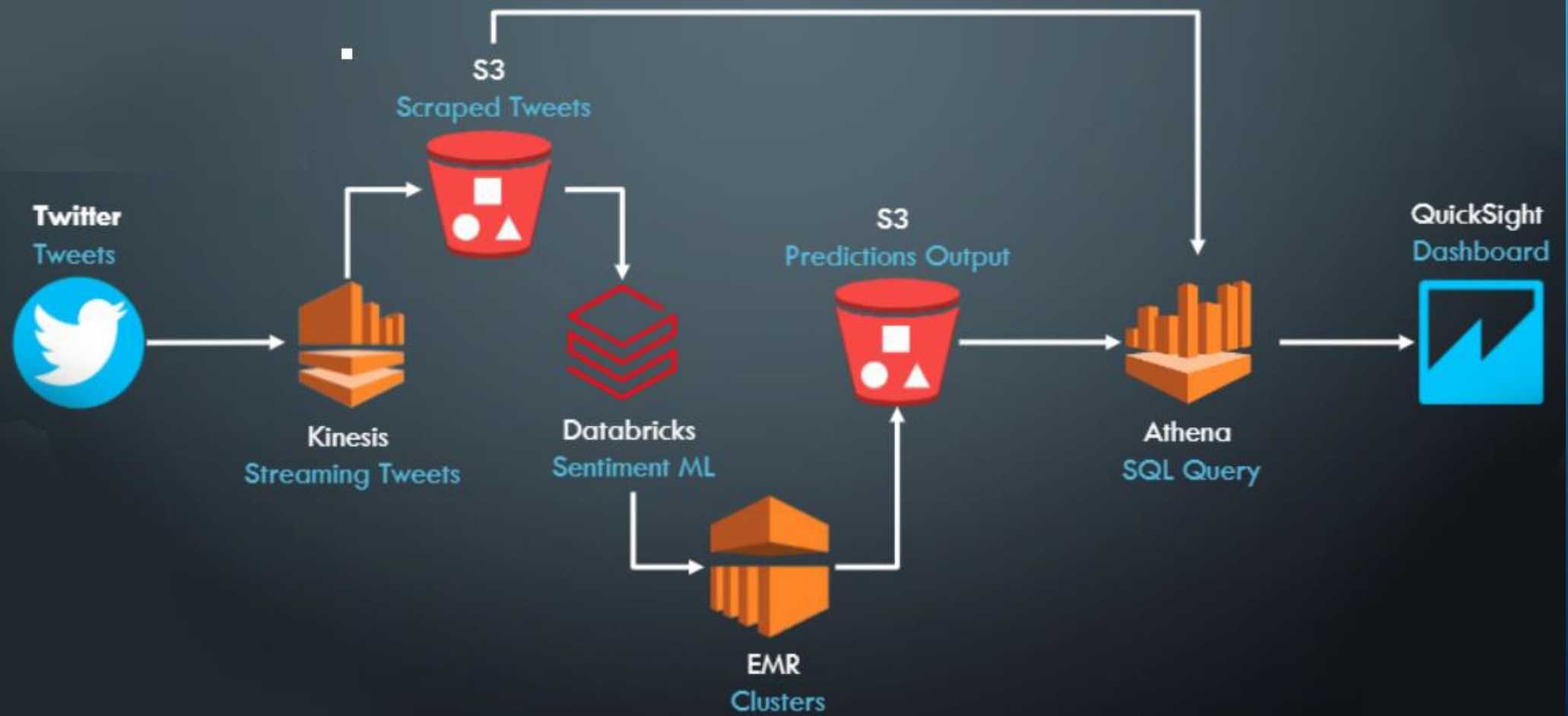
Background

- AI became a hot topic in 2022 because of introduction of Large Language Models and diffusion models
- Some people were positive towards this development, while others were negative

Objective

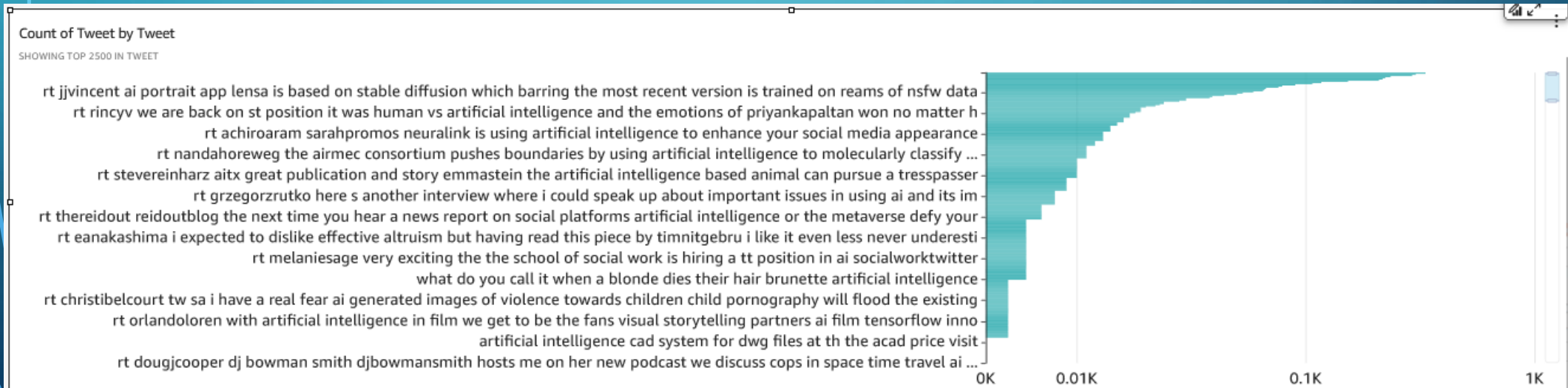
- Scrap #AI tweets
- Perform sentiment analysis
- Present findings

DATA



TWEET ANALYSIS

id	name	username	tweet	followers_count	location	geo	created_at
1601172099045158912	YUNUS HANBAL	HanbalYunus	@CryptoEmdarks Th...	21	None	None	Fri Dec 09 11:09:...
1601172122730041344	ASLI HANBAL	HanbalAsli	@Crypto_Diva #GP...	152	None	None	Fri Dec 09 11:09:...
1601172161372491778	YUNUS HANBAL	HanbalYunus	@CryptoThro There...	21	None	None	Fri Dec 09 11:09:...
1601172171602419712	ASLI HANBAL	HanbalAsli	@belufrancesese #GP...	152	None	None	Fri Dec 09 11:09:...
1601172214056767489	YUNUS HANBAL	HanbalYunus	@cryptojack There...	21	None	None	Fri Dec 09 11:09:...
1601172226631311362	ASLI HANBAL	HanbalAsli	@CryptoThro #GPLE...	152	None	None	Fri Dec 09 11:09:...
1601172266460454914	ASLI HANBAL	HanbalAsli	@cryptoworld202 #...	152	None	None	Fri Dec 09 11:09:...
1601172313017581568	ASLI HANBAL	HanbalAsli	@pascualprincipe ...	152	None	None	Fri Dec 09 11:10:...



TWEET ANALYSIS

Total Number of
Tweets

10491

Positive Sentiment
Tweets

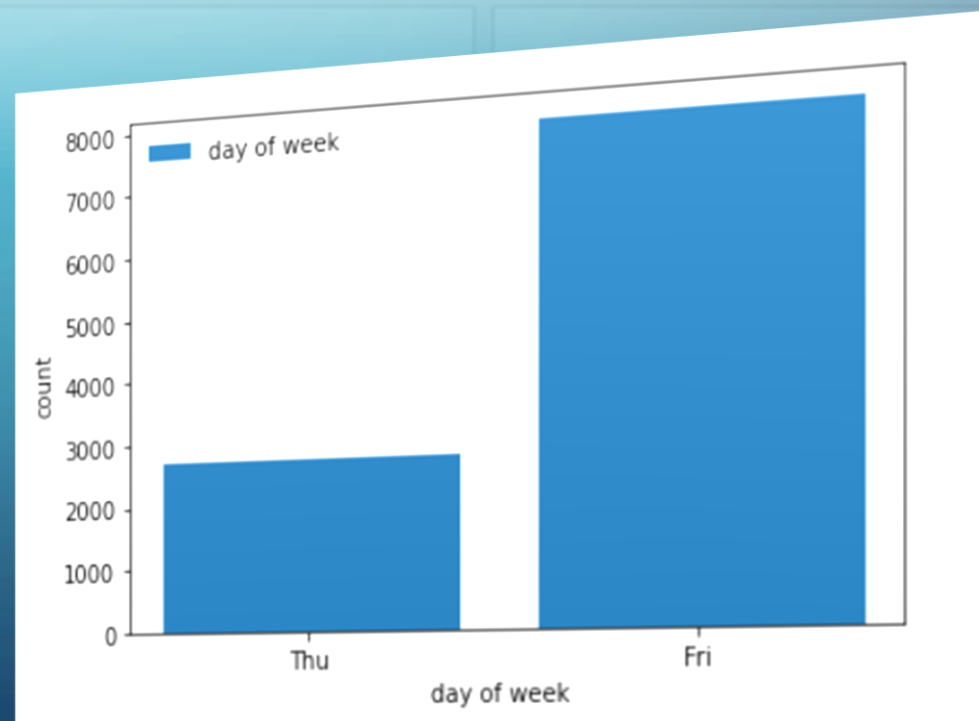
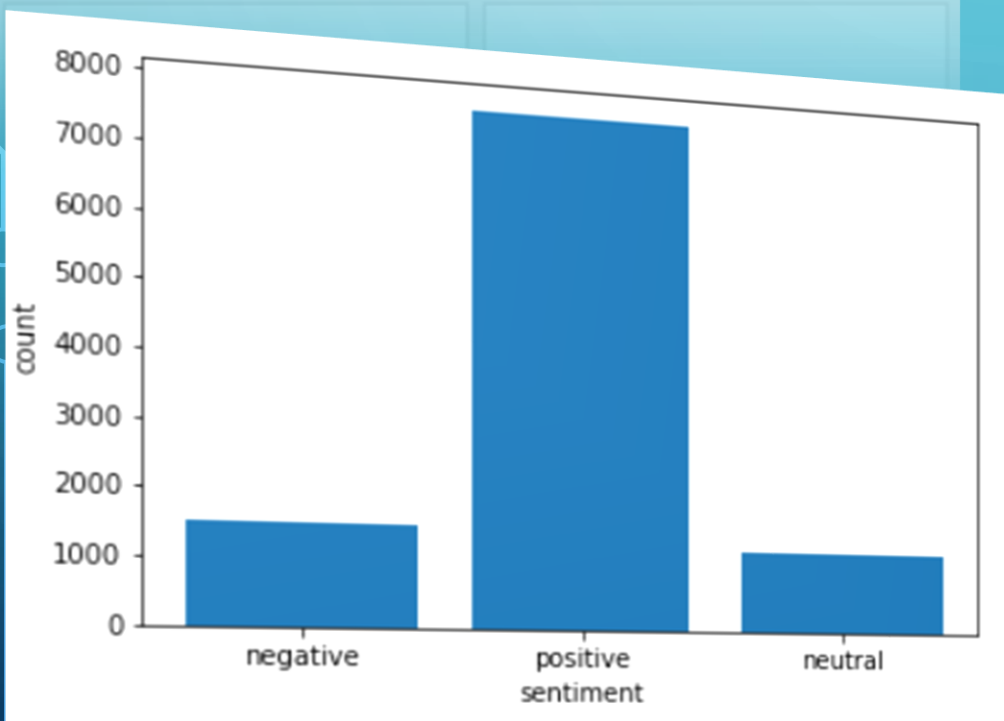
7753

Negative Sentiment
Tweets

1509

Neutral Sentiment
Tweets

1229



TWEET ANALYSIS

Retweets

6561

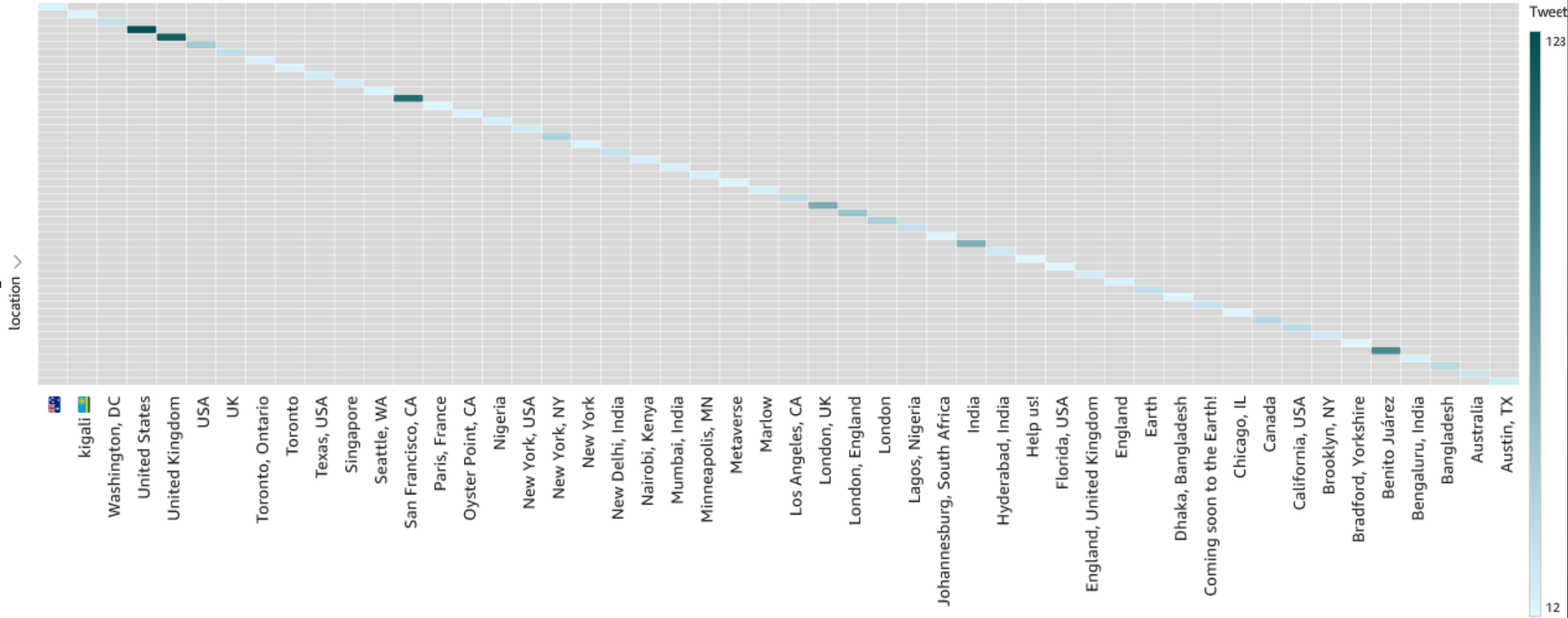
59%

20%



TWEET ANALYSIS

SHOWING TOP 50 IN LOCATION



TWEET ANALYSIS

Logistic Regression

Accuracy Score: 0.8977
ROC-AUC: 0.8976

Decision Tree

Accuracy Score: 0.7974
ROC-AUC: 0.7426

CONCLUSION

Challenges

- Databricks community edition cluster has 2 hours limit
- Databricks community edition cluster is very slow when working with large data sets
- 59% of tweets are retweets

Conclusion

- Most people are positive towards developments in AI
- Logistic regression is better than Decision Tree model
- Logistic Regression model accuracy is 90%