eCloudChain
Analyze. Innovate. Transform.

How to Combat Covid19
With
Twitter Live Dashboards

Solution Paper

Twitter-Live-Dashboard solution can significantly help the concerned Authorities, Government & Health Ministries, Social-Workers Globally to adequately understand the growth patterns of Covid-19

Let's Fight it Together

#CoronaOutbreak

#Coronavirus

#Covid19

How it works

Twitter live dashboard is a cloud-based fully-managed solution with serverless architecture to continuously analyze the ever-changing Twitter data-streams by using Machine-Learning algorithms to provide intelligent insights on the interactive dashboards to help authorities make the right & quick decisions during the epidemics like Covid19

ABOUT US

www.ecloudchain.com

info@ecloudchain.com

How Twitter Live Dashboards can help Authorities

The World Health Organization (WHO) has declared the coronavirus (COVID-19) a global pandemic which threatens the lives of humans. Outside Wuhan, China the virus has already spread across many countries and further expanding. World needs a quick and safe solution right now to combat further spread of the coronavirus.

Twitter data extraction and data mining can significantly help doctors and government authorities to adequately understand the critical disease, its patterns, and symptoms and present them with valuable insights to promptly arrive at the appropriate treatment, medicines, and preventive guidelines.

Cloud-based Twitter Live Dashboards based on Machine Learning and NLP algorithms can provide meaningful analysis to deal with such Pandemic like Coronavirus(Covid-19).

There are millions of authentic tweets concerning Coronavirus originating at all the time. These tweets hold vital information that can help us understand the disease and its root causes. The latest ML & AI heatmaps are used to trace and filter out the misinformation floating and provide us with accurate data streaming to analyze and visualize it on live dashboards.

These live dashboards can quickly indicate the authorities about variety of emerging patterns, and symptoms, locations, treatments, medicines, vaccines, etc. which could be a lifesaver for many if implemented on time. Furthermore, necessary information can be shared back using predefined hashtags.

### Discover Hidden Trends, and Desease Pattern of COVID-19

"Twitter data extraction and data mining can help doctors and government authorities to adequately understand the nature of the criticl disease, its patterns, and symptoms and present them with the valuable insights to promptly arrive at the appropriate treatment, medication, and guidelines"

01 Data Stream

02 Analyze

03 Visualize

Live dashboards can quickly indicate the authorities about variety of emerging patterns, and symptoms, locations, treatments, medicines, vaccines, etc. which could be a lifesaver for many if implemented on time.

Twitter Hashtag #CoronavirusOutbreak
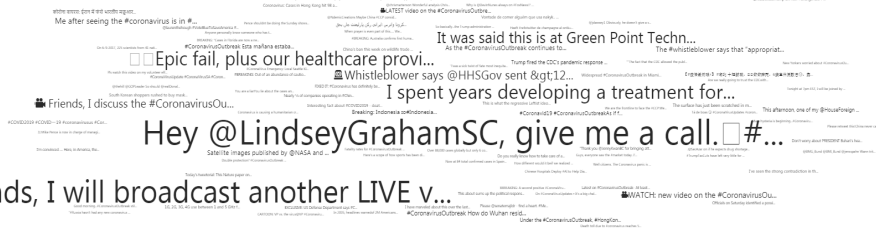
Hashtag Locations Monitoring
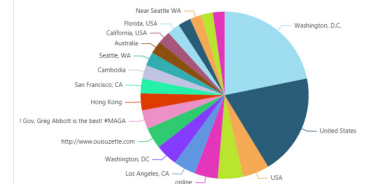
Analyze the Data in Real-Time and Batch

Twitter provides a comprehensive streaming APIs that developers can use to download the tweeter data in real-time and batch to be able to analyze live and historical both categories of tweets. Our Twitter Live Dashboards provide a detail analytical & monitoring solution for any hashtag, term, users, location, likes, retweets, and perform machine learning-based sentiment analysis.

A specific Serverless Architecture is designed to continuously analyze an ever-changing set of data-driven events.

Tweeter streaming data is huge and it needs high compute and storage resources to extract, store, process, analyze and finally visualize the data with a meaningful output. It's done with the help of a combination of technologies and services i.e AWS EC2, Python Tweepy libraries, AWS SDKs, S3, Athena, Lambda and AWS Quicksight.

Solution provides you with a perfectly slice and dice of a high volume of complex live streaming data to create an interactive analytics to allow you to instantly explore the desired information in the form of live visualization dashboards.

The data in these dashboards can be manipulated by grouping and aggregating based on likes,re-tweets, locations, number of tweets, etc. to get the desired and meaningful insights. It also supports the features to download the CSV files at any stage of analysis to get a further detailed analysis of the entire data-set.Dashboards continuously fetch the new data to update its graphs and summaries.

Conclusion

World Health Organization(WHO) keeps issuing new guidelines for COVID-19 preventive measures to control the global outbreak. These guidelines are being updated every moment based on latest development of the nature of the decease, locations, and medical research outcomes.

Twitter analytical Dashboards ML insights can contribute and support local authorities to discover hidden trends and patterns, learn critical factors and provide timely alternatives and perform powerful analysis and forecasting. It can help in saving days of manual investigation and analysis.
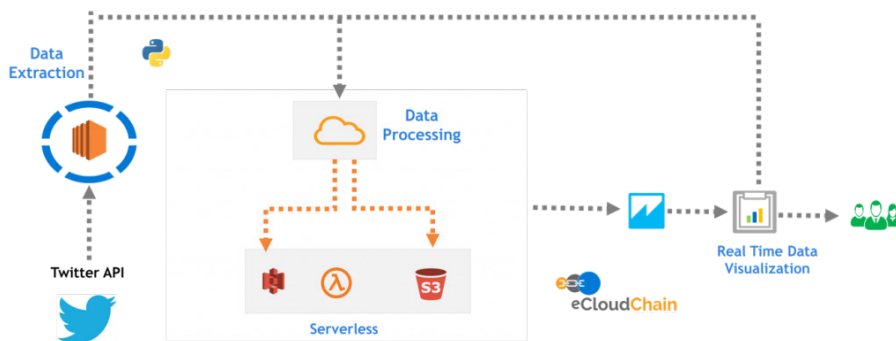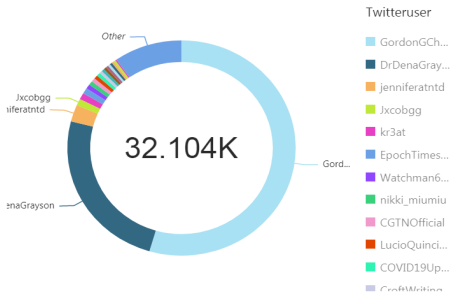
User Monitoring with Highest Likes

Most Popular Tweets (Re-Tweets & Likes Analysis)