PROBLEM STATEMENT - 3

Help me with my Mood- With Social-media Health Analysis and Display Engine (SHADE).

With the advances in technology about sentiment analysis and predictive analytics, it has opened many avenues for researchers and enterprises to understand human mental state better. The proposed challenge is to know the emotion/mood of a person, to help in eliminating any negative state of mind that might have adverse effect on his/her daily life.

PROBLEM DESCRIPTION

A person's emotions and moods have direct bearings on his/her daily activities. It is necessary to eliminate negative emotions that our family or friends might be experiencing, to help them lead a better life. Research has shown that social networking activity is a good source to gauge a person's state of mind [1]. Mood of a user is often reflected in his/her social content, like tweets, blogs, article, status updates, etc. Timely analysis of a user's social media can be used to improve the feelings, and even save a person's life in an extreme case! Hence it becomes important to regularly analyze the social-media health of our friends and family to take timely action.

EXPECTATION

Develop a mobile/desktop app that will

- Get a person's social contents (e.g. tweets) for a duration (e.g. past 24 hours).
- Perform sentiment analysis using IBM Watson [2], [3] on the above content.
- Display the person name and his/her most prominent sentiment.
- Suggest measures to soothe or calm down the mood of the person by suggesting some curated playlist of songs based on his interest or something similar that you can imagine.

EVALUATION CRITERIA

The evaluation criteria are listed on the hackathon page.

TOOLS & TECHNOLOGY

- IBM Cloud
- IBM Watson
- App development framework for desktop (e.g. Python, Java) and mobile (e.g. Android, iOS)

RESOURCES & REFERENCES

- https://www.countryliving.com/uk/wellbeing/news/a2251/photos-social-media-depression-state-of-mind/
- https://www.ibm.com/watson/services/tone-analyzer/
- https://www.ibm.com/watson/services/natural-language-understanding/

FAQ's

Q: What are the programming languages?

A: Python, Java

Q: What are mobile platforms allowed?

A: Android, iOS

Q: Where to get free access to IBM Cloud?

A: Sign up on - https://www.ibm.com/cloud/

Q: Is there any documentation available to use IBM Cloud?

A: Yes, each service comes with elaborate documentation with step by step illustration to use the services available on IBM cloud, follow the VIEW DOCS, link available on each service.

Q: Is the knowledge of ML/DL is required?

A: No

Q: Is there any dataset provided?

A: No, there is no dataset made available with this challenge, you can create/mine your own dataset.

Post your technical queries on slack
https://join.slack.com/t/ibmhackchallenge/shared_invite/enQtNDA5NDk4OTUxNjMyLWZmNGQ1Mzc5YzQzYTg1ODEwNGY3MTVlMzZhNGJiYTk4ZWI2MzQ1NjA4YzI5YTNiMTU3NjNkMDJkNDY1ZDUzYTI