IBM Hack Challenge 2018: Team Persona

Problem Statement: Problem Statement 3: "*Help Me with My Mood*"

Team Size: 3 Members

Members: Sanksar Jain

Bhanu Dutta Parashar

Saransh Sharma

Problem statement defined in simple terms:
"*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.

Scope of Work:

  Deliverables: We provide a full stack web application that allows user to register/login to provide recommendations. Recommendations are in the form of Videos, Images, Songs and Articles can be viewed on our website as well as daily mails will be sent to users if their mood is critical.

  Timeline: Initially the project was initially a flowchart of multiple things. The project started as small scattered modules, including modules to scrap and/or extract data from social media sites, analyze mood using IBM Watson API and UI for Website. Then modules were joined together, mailing system and a continuous watcher to send mails to user was added finally. Simultaneously Datasets of Images, Videos, Songs and Articles was collected.

Technologies Used:

Python and its packages:	Web Technologies:
1. Flask 2. Keras 3. IBM-Tone-Analyzer 4. Bcrypt 5. json 6. SQLAlchemy 7. BeautifulSoup 8. Python twitter REST APIs 9. numpy 10. smtplib	1. HTML 2. CSS 3. Bootstrap 4. JavaScript

Role of Each Member:

- **Sanskar Jain:**
    - **UI/UX Designer**
    - **Website Backend creator**
    - **Database manager**
    - **Login/Registration handler**
    - **Developed 'Watcher' functionality**
    - **One who joined all the pieces together**
    - **Documentation**
- **Bhanu Parashar:**
    - **Extracting tweets from Twitter**
    - **Scrapping Public Instagram posts**
    - **Creating and Training Neural Network for converting emotions to recommendation**
    - **Mailing System**
- **Saransh Sharma:**
    - **Database collection**
    - **Sentiment analysis**

GitHub Link: https://github.com/sanskarjain1997/Persona

YouTube Link: **https://youtu.be/OxmJJuA8hIw**