

# **IBM Hack Challenge**

## **Problem Statement Opted:**

**“ Help Me with my Mood “**

## **Team Size and team Members:**

The size of the team is of **4 members**. Those are as follows:

Sno.	Member Name	University Rollno.	Year/Branch
1.	Shiva Tiwari	1629013049	3 <sup>rd</sup> / IT
2.	Shivam Choudhary	1529013035	4 <sup>th</sup> / IT
3.	Stuti Swarnkar	1529013041	4 <sup>th</sup> / IT
4.	Devraj Kumar	1629010055	3 <sup>rd</sup> / CS

## **Problem statement definition:**

An individual's sentiments and moods have direct pertinence on his/her everyday activities. It is essential to eradicate the negative emotions that our family or friends may be undergoing, to assist them to lead a more sound life. Analysis has shown that social networking activity may be a rational supply to measure a person's state of mind. The mood of a user is usually mirrored in his/her social content, like tweets, blogs, article, status updates, etc. Timely analysis of a user's social media can often be employed to improve the mood, sometimes it can even help in saving one's life in severe situations. Thus it becomes necessary to frequently analyze the social-media health of our friends and family to require timely action.

## Tools and Technology used:

- Twitter api
- App development framework for desktop (e.g. Python, Java) and mobile (e.g. Android, iOS)

## Role of Each team member:

Sno.	Member Name	Role
1.	Shiva Tiwari	Analysar
2.	Shivam Choudhary	Web Scrapper
3.	Stuti Swarnkar	Working on NLP
4.	Devraj Kumar	Working on NLP

## Scope of the Idea:

Since this is for the social media sites, hence we would scrap information from the activities of the user on the particular profile, after which we are going to apply NLP to extract out the relevant data needed to analyze the mood of a singular. On that extracted data we would then apply sentiment analysis to grab the mood out of the textual information and Rate the mood. The rating would be:

-> -2 to - 1: Individual is in a bad mood (ranging from extreme to slight)

-> 0: Individual is neutral in his feels

-> 1 to 2: Individual is in a good mood(Ranging from slight to extreme)

And then recommend the person supporting media (in the form of image, video, audio, text etc.) in order to improve his/her feels.