Fake Profile Detector

PROJECT DONE BY:

V.S. Bharath Raam /vs4754@srmist.edu.in/ 9962904629

Nikil. P /np9234@srmist.edu.in/ 8667469305

Gautham Vijayraj /gv1809@srmist.edu.in/ 9840483494

Pranav Krishna. A /pranvkrish14@gmail.com/ 9080451745

Introduction:

In today's Modern society, Social Media plays a vital role in everyone's life. The general purpose of social medial is to keep in touch with friends, sharing news, etc. The number of users in social media is increasing exponentially. Twitter has recently gained immense popularity among social media users. With more than 1 billion active users. Twitter has become one of the most used Social media sites.

After the emergence of Twitter to the social media scenario, people with a good number of followers have been called Social Media influencers. These social media influencers have now become a go-to place for the business organization to advertise their products and services. However, there are as much as disadvantages as much as advantages in these social networking platforms. One of them is the use of fake profiles and identity theft.

Fake Accounts:

The widespread use of social media has become both a boon and a bane for the society. Using Social media for online fraud, spreading False information is increasing at a rapid pace. Fake accounts are the major source of false information on social media. Business organizations that invest huge Sum of money on social media influencers must know whether the following gained by that account is organic or not.

So, there is a widespread need for a fake account detection tool, which can accurately say whether the account is fake or not. The process of finding a fake account mainly depends on factors such as engagement rate and artificial activity. Twitter profiler basically filters the fake accounts and bot accounts present in twitter using certain inputs given by the user.

In order to reduce these false practices our team has a solution: **The Twitter Profiler**
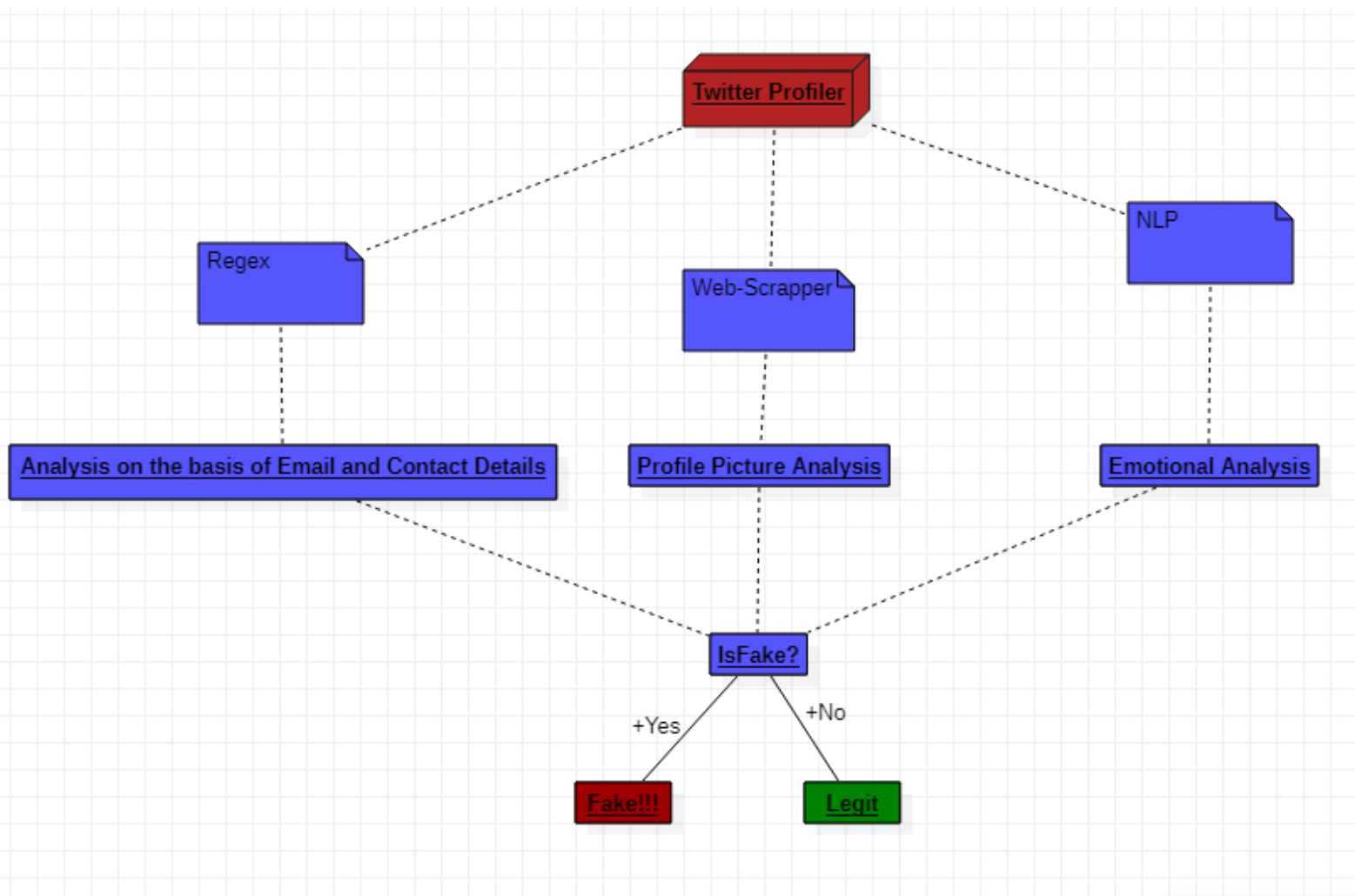
Modules Used:

- ➤ Twitter_Scrapper
- ➤ NLTK
- ➤ FPDF
- ➤ Selenium
- ➤ A beautiful Soup

Software Requirements: Any Python Compiler

Twitter profiler basically filters the fake accounts and bot accounts present in twitter using certain inputs given by the user. So, this how the Twitter Profiler works. We have used 3 techniques to narrow down whether a particular account might be legit or not. These techniques will be called as methods from our python program. The techniques are as follows:

➢ Web-Scrapping using the Tineye website
➢ Regex
➢ NLP

Schematic Representation

Web-Scrapping:

Web scraping is data scraping used for extracting data from websites. While web scraping can be done manually by a software user, the term typically refers to automated processes implemented using a bot or web crawler. It is a form of copying, in which specific data is gathered and copied from the web, typically into a central local database or spreadsheet, for later retrieval or analysis.

To perform the scrapping, we are going to use the Tineye website. Tineye website is used for scrapping out twitter Id which is used to get the profile picture link and it copies the link the search bar of the Twitter profiler. Further it compares the given profile picture with stock images from google in order to check if the photo is present in the internet.

The photo's address or photo-url of a profile is taken from the profile and entered in this website. The website performs a global search for similar profiles. For example, if someone uploads the picture of celebrity this website would be able find out by finding similar pictures of the same person in the internet. So creating fake profiles by using a famous person's display picture can be narrowed down using this technique

REGEX:

Regex is used to analyze the accounts with their linked contact details such as mobile number, email address etc. So, a verified mobile number contains only 10 digits and for example if the number is stored as 22222222222, that account can be narrowed down. Similarly, each email address can be verified as well in the same manner.

NLP:

We detect and analyse sentiment and emotion expressed by people from text in their twitter posts. Then we collected tweets and replies on few specific topics and created a dataset with text, user, emotion, sentiment information, etc. We used the dataset to detect sentiment and emotion from tweets and their replies and measured the influence scores of users based on various user-based and tweet-based parameters. We used the detected sentiment and emotions to generate generalized and personalized recommendations for users based on their twitter activity.

Using this analysis, a fake account can easily be identified separately from other twitter accounts.

Then a final output is generated in the form of a graphical analysis for each account.

Twitter Profiling

name : Narendra Modi

username : narendramodi

birthday : September 17

biography : Prime Minister of India

location : India

website : narendramodi.in

likes_count : None

tweets_count : 26985
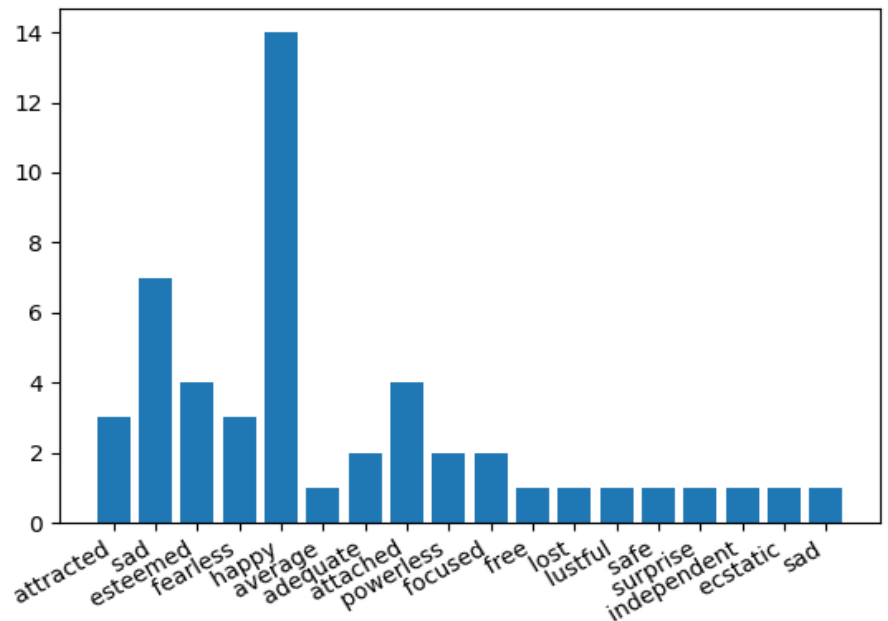
followers_count : 60139889

following_count : 2356

is_verified : True

is_private : False

user_id : 18839785

26 results for profile picture

Positive Emotion

Personally identifiable information

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