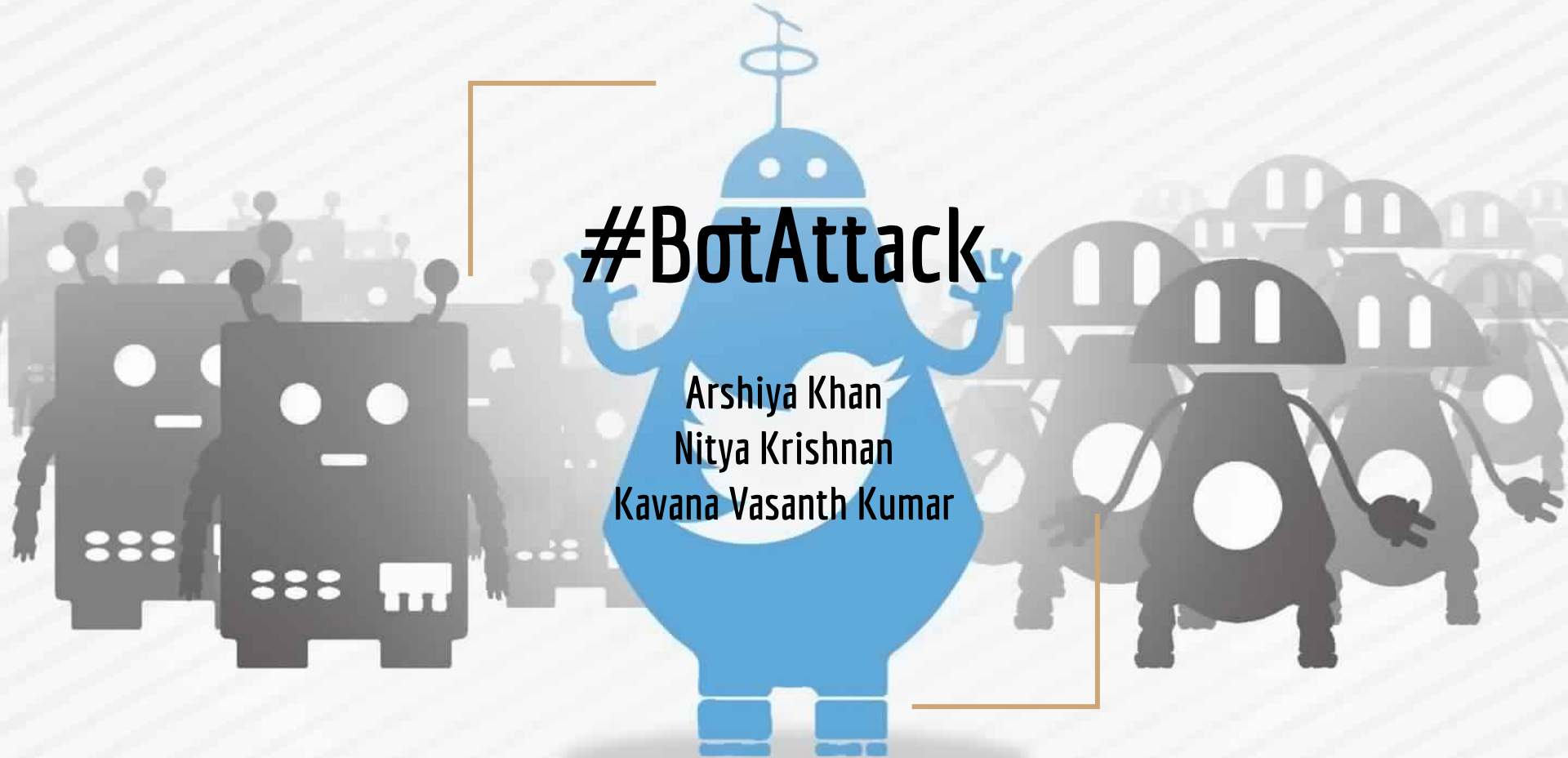


# #BotAttack

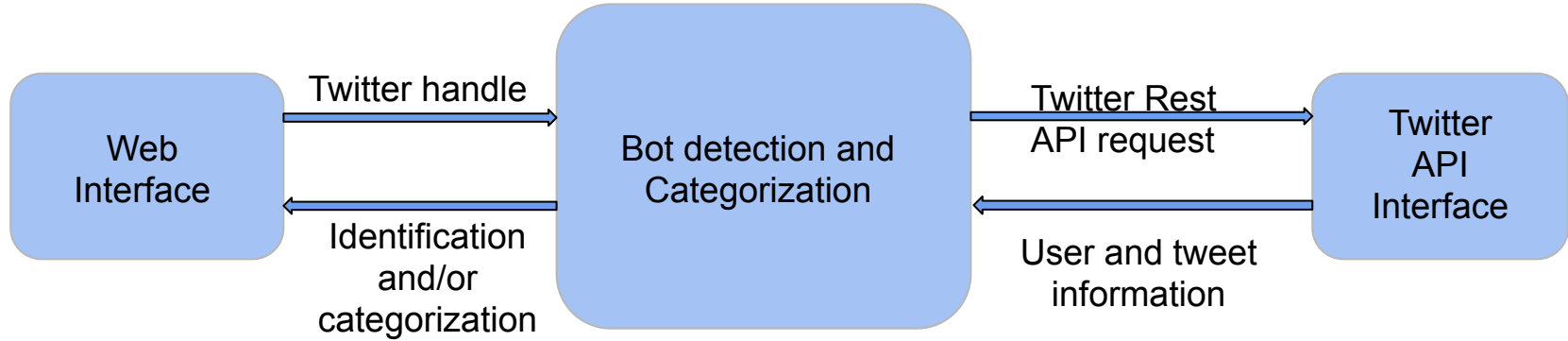
Arshiya Khan  
Nitya Krishnan  
Kavana Vasanth Kumar



# Problem Statement

- Explore the growing problem of bots on twitter.
- Identification
- Categorization

# System Architecture

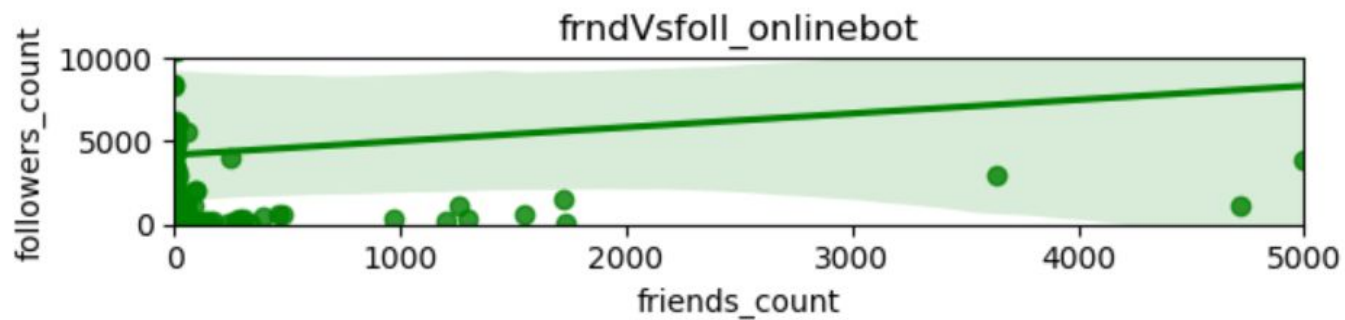
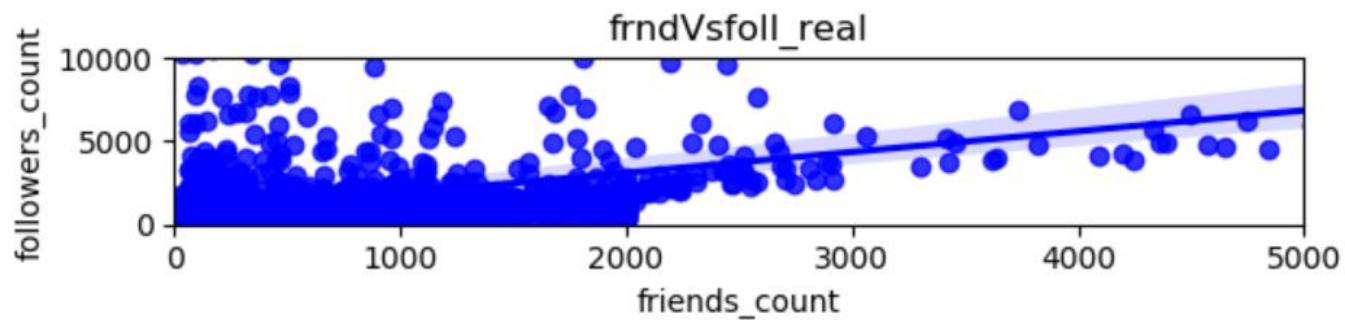
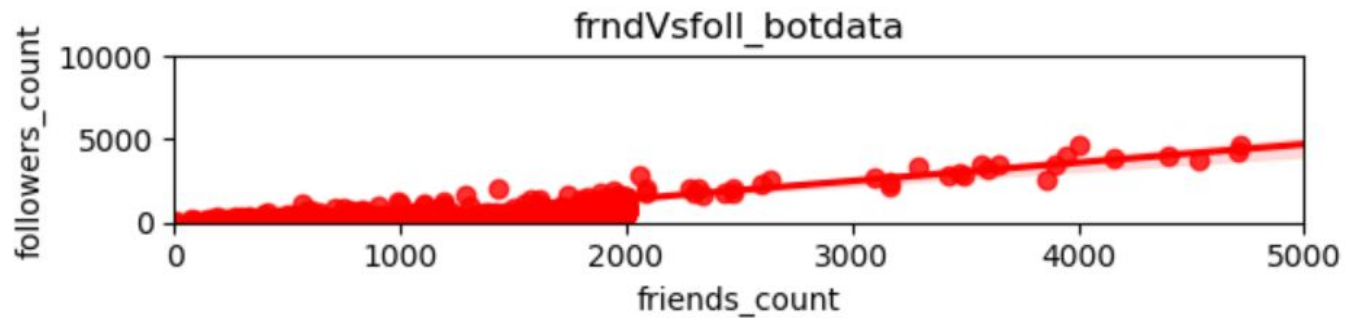


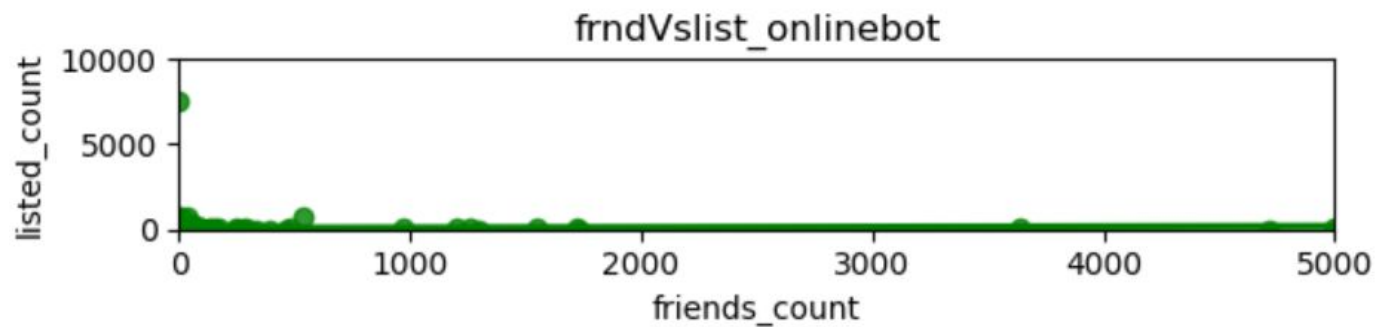
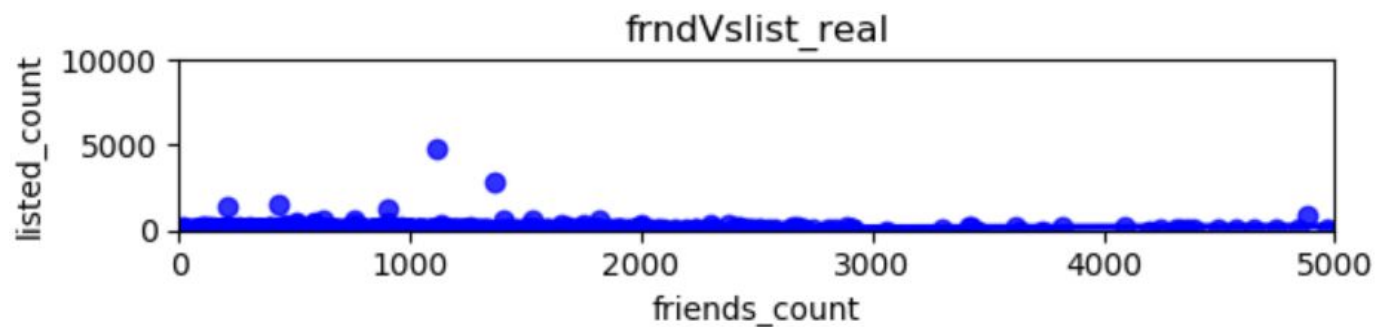
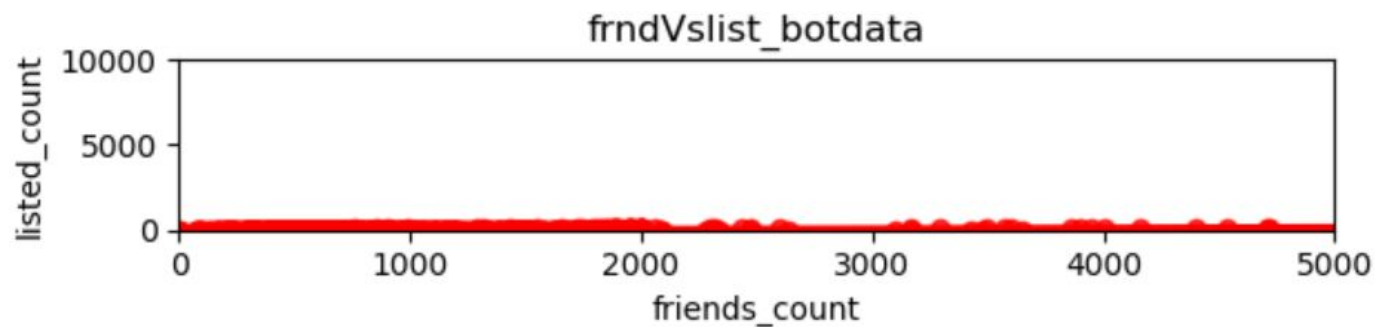
# Tools Used:

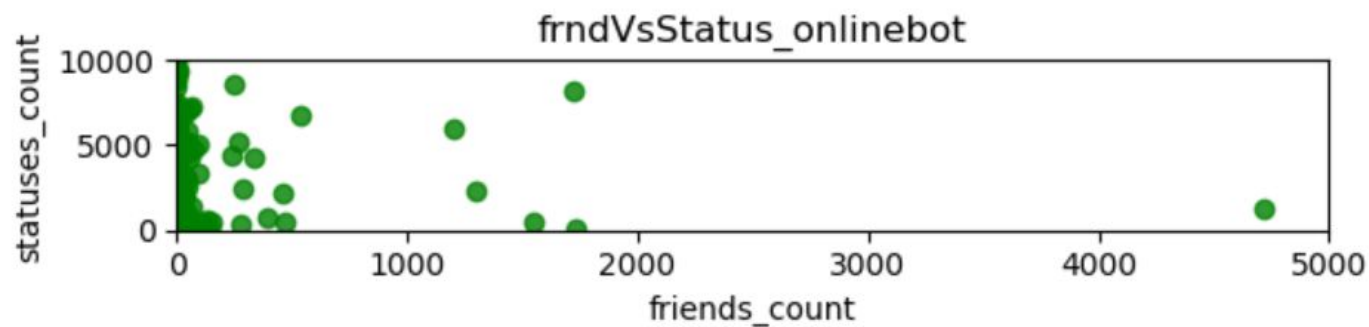
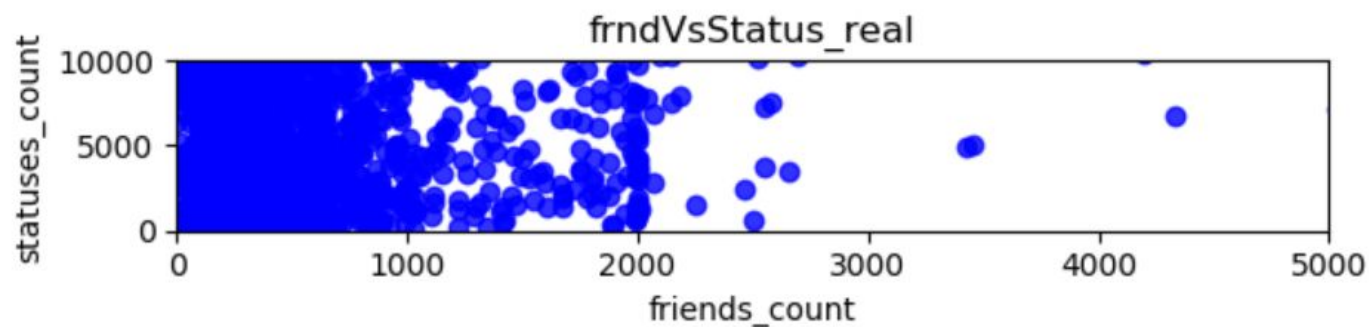
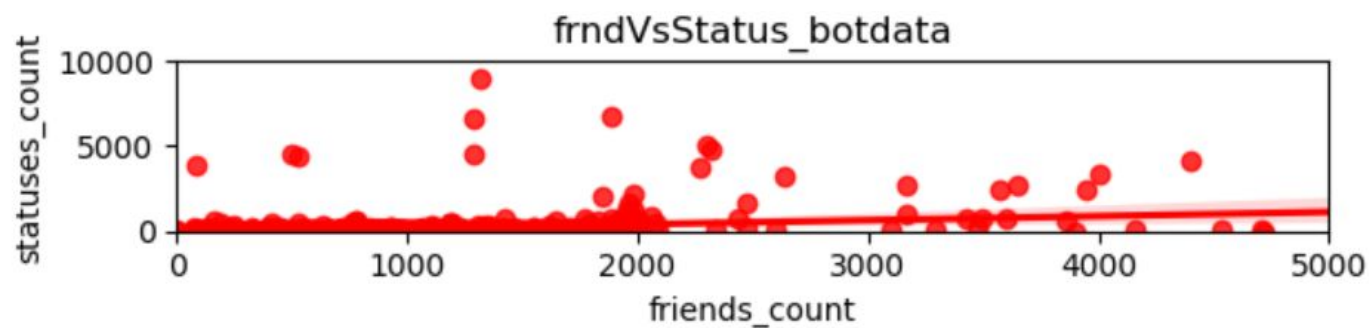
- Data Sets:
  - <https://botwiki.org/bots/twitterbots/>
  - <https://botometer.iuni.iu.edu/bot-repository/datasets.html>
  - Kaggle datasets
  - Twitter REST API
- GUI:
  - Python Flask
- Python Packages used:
  - Tweepy, Pandas, Seaborn, Matplotlib, Nltk, Spacy, Numpy, sklearn

# Exploratory Data Analysis

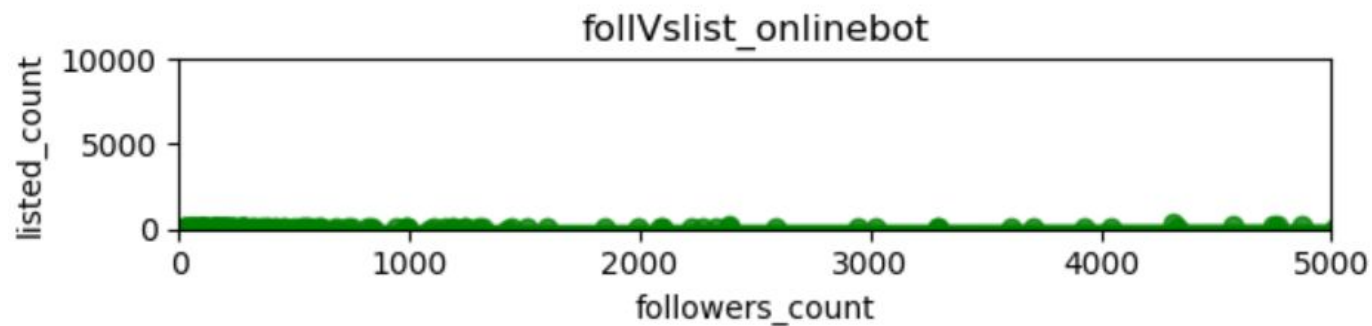
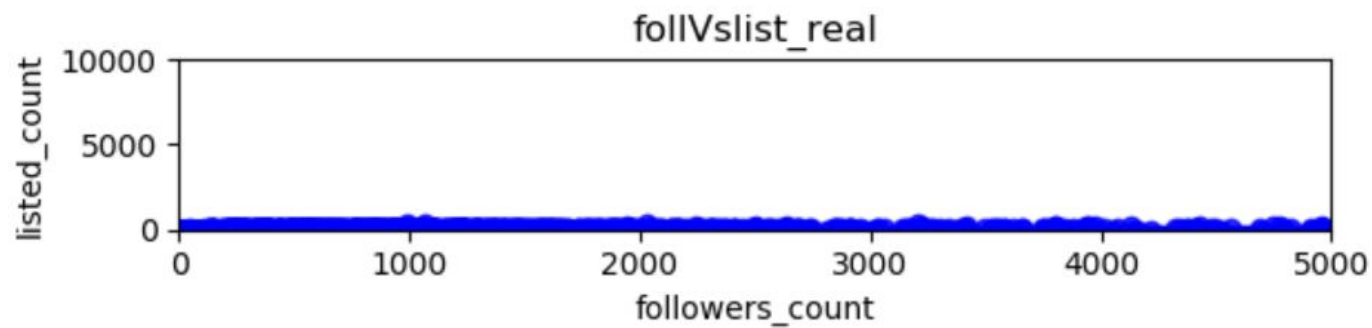
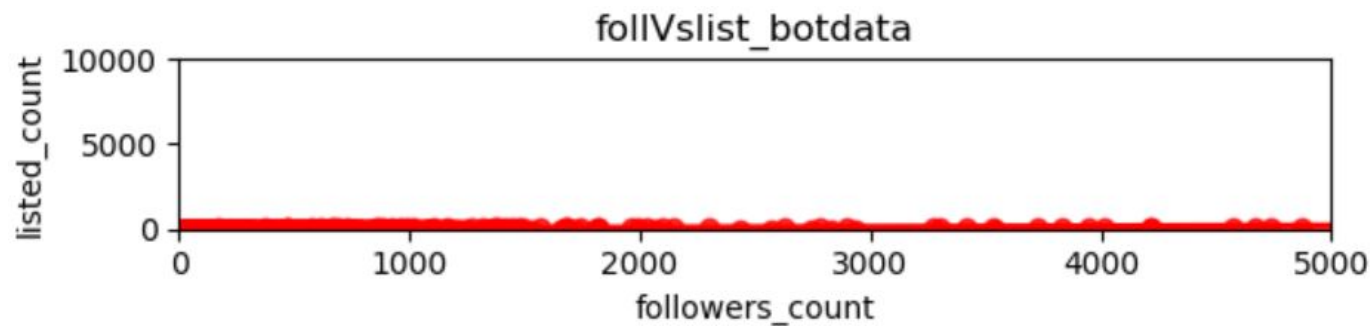
- Followers\_count : Number of followers the account currently has.
- Friends\_count : Number of users the account is following.
- Listed\_count : Number of public lists the user is member of.
- Statuses\_count : Number of tweets issued by the user.

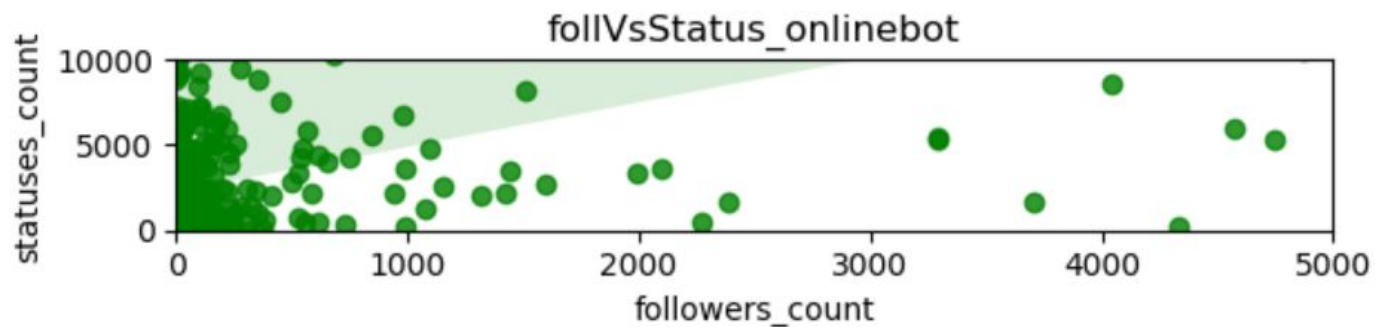
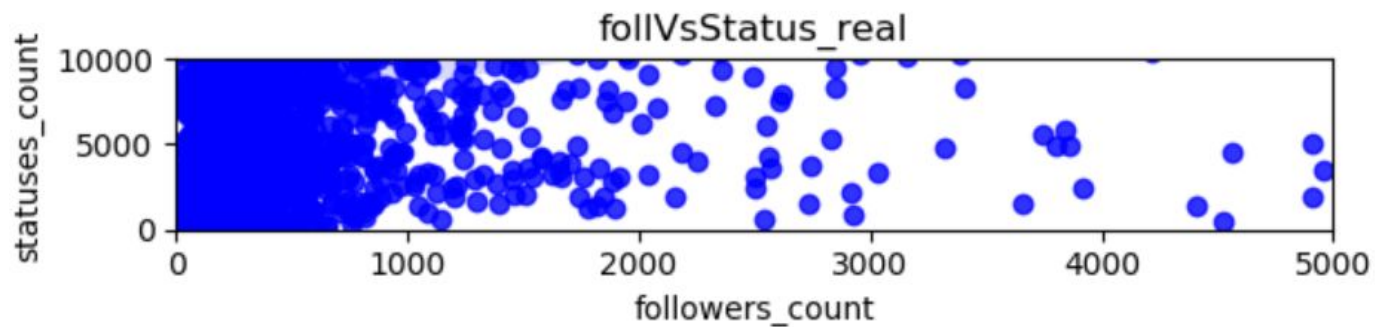
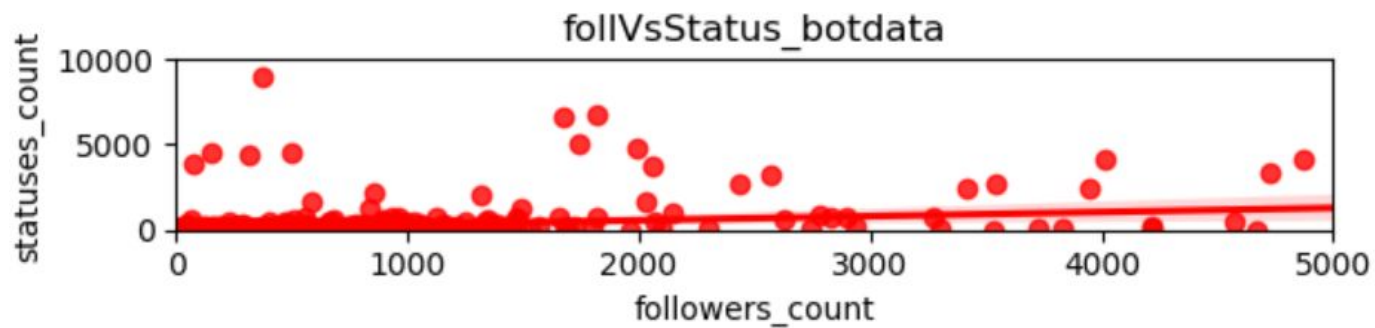


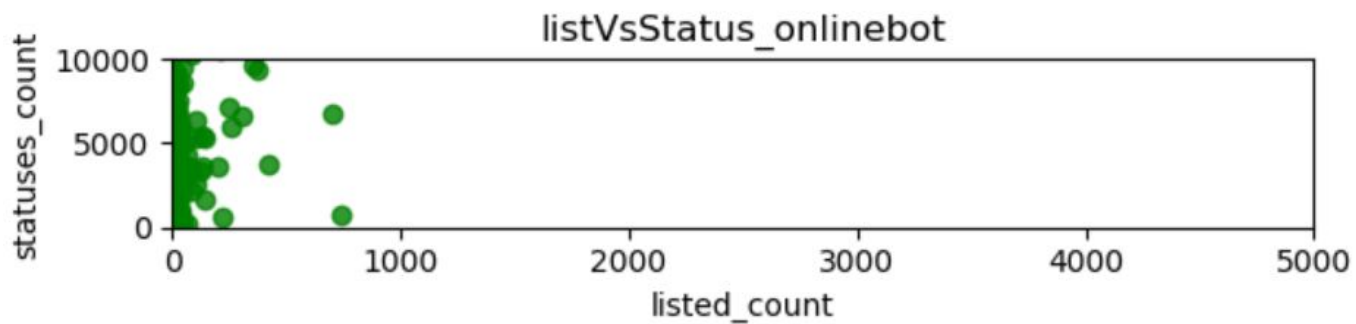
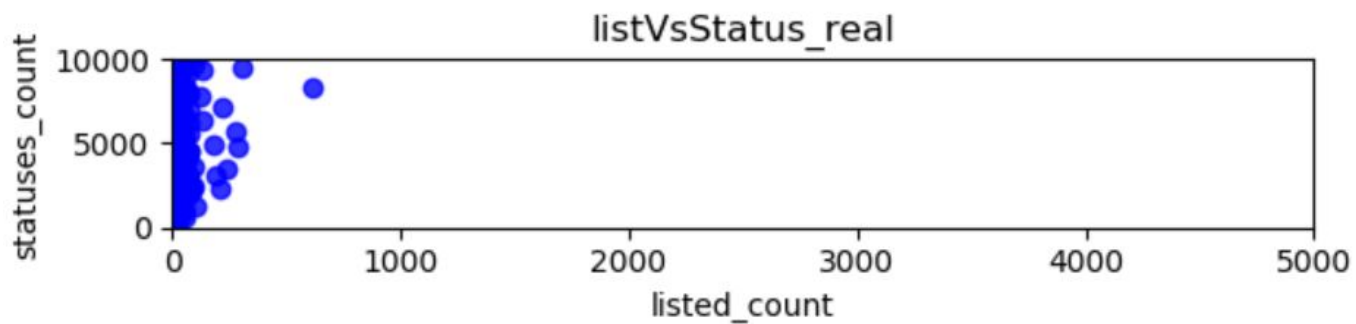
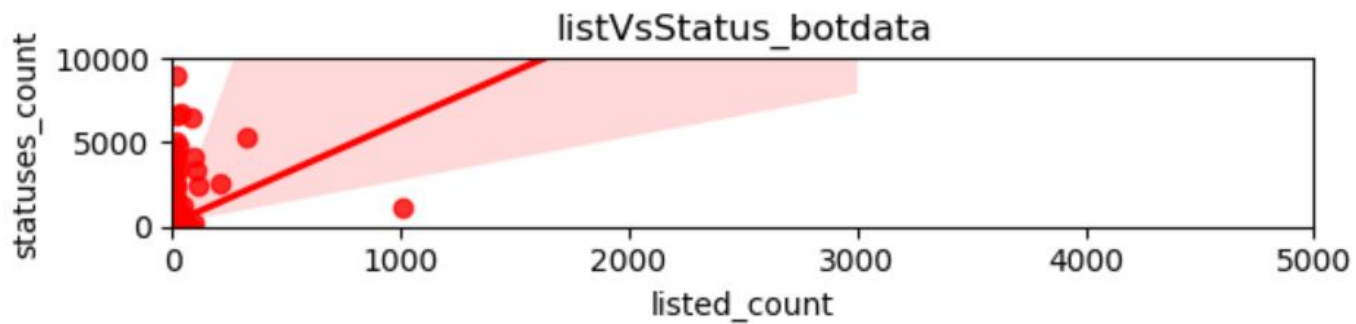




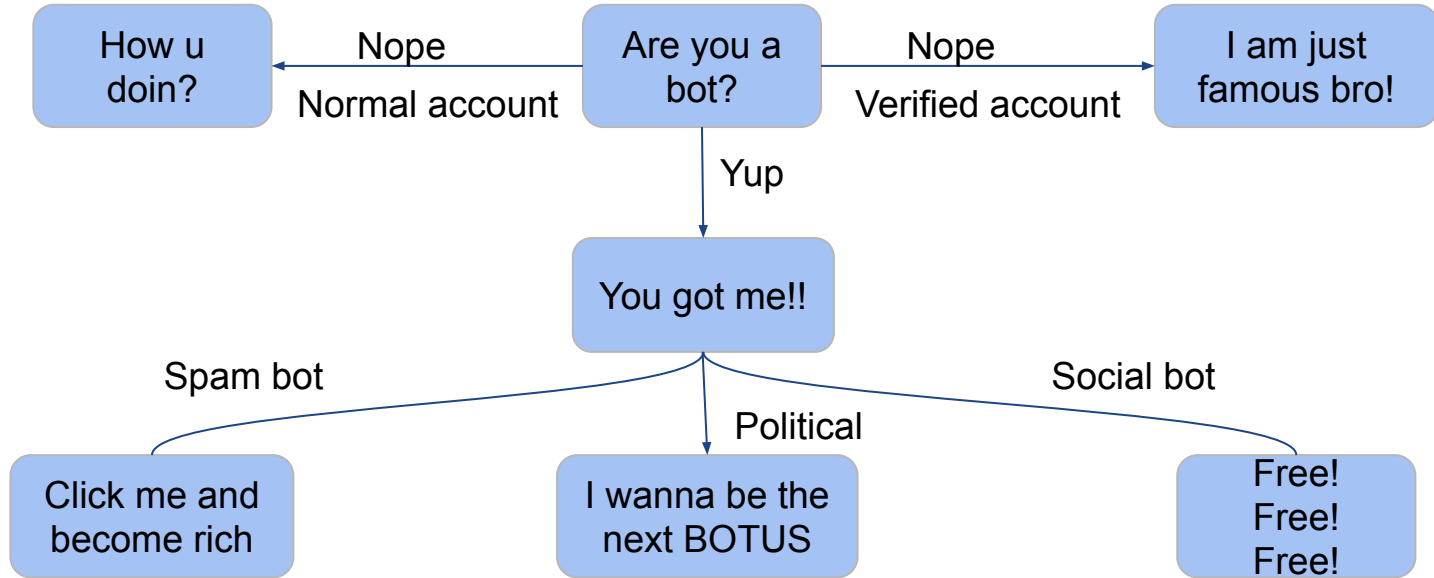








# Categorization and Flow



# Results

## Bot Detect

Name:

Enter a valid twitter username...

Check

calm\_gifs is a socialbot

## Bot Detect

Name:

Enter a valid twitter username...

Check

FeedTheGITMO is a political bot

## Bot Detect

Name:

Enter a valid twitter username...

Check

shakethatbrass2 is a spam bot

## Bot Detect

Name:

Enter a valid twitter username...

Check

LakmeFashionWk is a verified account

## Bot Detect

Name:

Enter a valid twitter username...

Check

nitya\_k is not a bot

# Future Work

- Exploring: Fake news bot detection
- Improve the accuracy.
- Include more number of categories.
- Explore better text classification techniques.