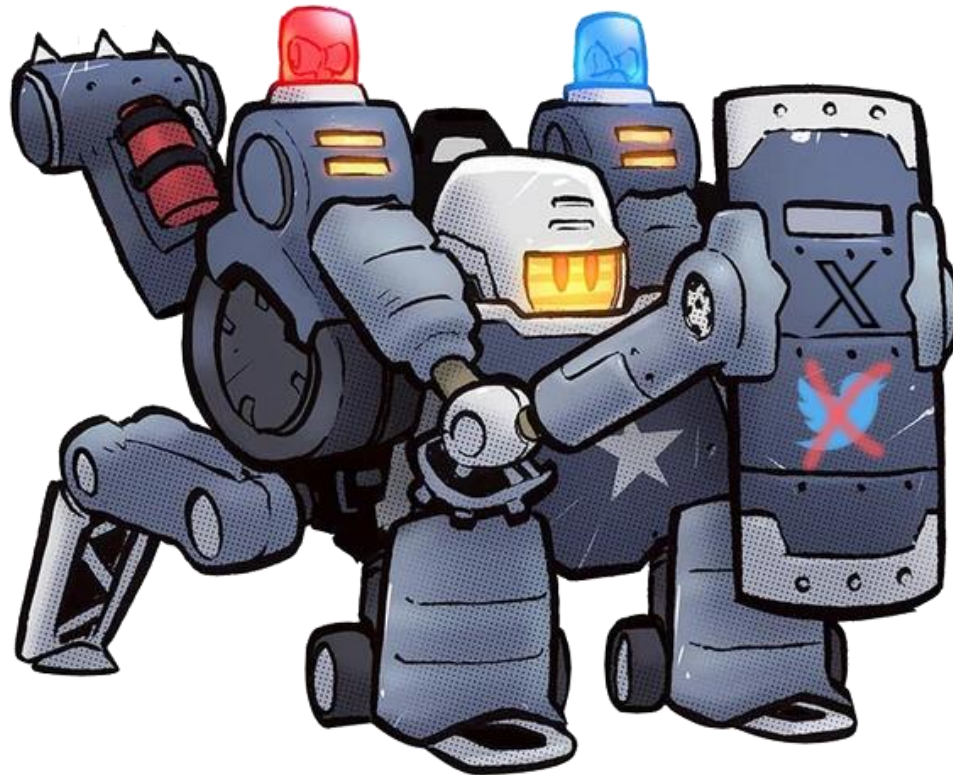


Police Bot

Enhancing Social Media Governance with Policing Bots



Group Members

- ▶ Students:
 - ▶ Liam Dumbell
 - ▶ Gabriel Silva
 - ▶ Cody Manning
- ▶ Faculty Advisor / Project Client:
 - ▶ Khaled Slhoub
- ▶ Computer Science Project Instructor:
 - ▶ Dr. Phillip Chan

Motivation and Goal

Motivation

- Social Media Sites have had a prolonged issue with malicious bot accounts
- There is a need for a tool that can easily distinguish a bot account from a human as well as a malicious bot from a beneficial one.

Goal

- Allow users to detect malicious bots more easily while still being able to take advantage of the useful bots.
- Categorize bots by different levels of maliciousness
- Properly report bots with a high level of maliciousness to the proper administrators

Key Features

The Three D's:

▶ Detect:

- Allows users to detect artificial users (bots) on a social media platform.

▶ Distinguish:

- Allows users to distinguish beneficial bots from malicious ones.

▶ Decide:

- Allows users to determine the level of maliciousness of a bot account
- Allows users to decide to report the account after determining that it is a bot and its level of maliciousness

Technical Challenges

Team members currently have:

- ▶ No experience using and working with X/Twitter Virtual Environments.
- ▶ Little experience using the Twitter API.
- ▶ Little experience working with bots and no experience creating and detecting them.
- ▶ No experience with the libraries or other methods for developing bots for social media platforms.
- ▶ Insufficient HTML experience for the scope of this project.

Milestone 1

Oct 2

- ▶ Compare and select technical tools
 - Tweepy Python library
 - OAuth 2.0 Flask Application Approach
- ▶ Create small demos to evaluate the tools
 - Create simple Twitter Bots for both Tweepy and Flask App approach
- ▶ Resolve technical challenges
 - Make progress on learning how to work with the Twitter API
 - Learn how to create simple Twitter Bots
- ▶ Compare and select collaboration tools for software development, documents/presentations, communication, task calendar.
- ▶ Create Requirement Document.
- ▶ Create Design Document.
- ▶ Create Test Plan.

Milestone 2

Oct 30

- ▶ Implement, test, and demo the system used to compile data on accounts thought to be bots and store the account data locally to be analyzed.
- ▶ Learn the Twitter API well enough to develop the rest of our features within the API
 - Detection of Bot accounts using account data
 - Distinguish beneficial bot accounts from malicious ones based on account interactions and posts
 - Decision system that determines if a bot account should be reported or not

Milestone 3

Nov 27

- ▶ Decide on a method of detecting bot accounts.
- ▶ Implement, test, and demo the tool to detect whether an account is run by a human or a bot based on our chosen method.

**This concludes our
presentation, Thank You**