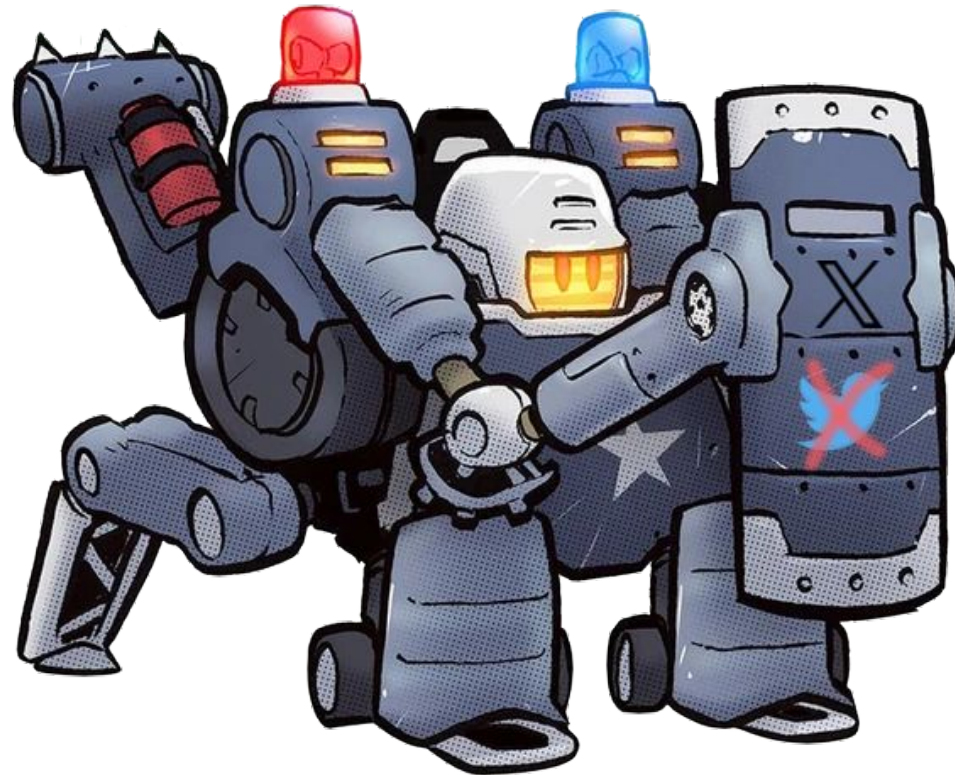


Police Bot

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 a **system** to compile data on bot accounts and store the account data to be analyzed in the future.
- ▶ Learn the **Twitter API** well enough to start developing the rest of our features within the API

Milestone 3

Nov 27

- ▶ Decide on a better method of detecting bot accounts, by doing research on the topic and improving the algorithm.
- ▶ Implement, improve, test, and demo an **algorithm** to detect whether an account is a bot based on our chosen method.
- ▶ If possible, also have a basic subroutine to identify different threat levels of bots, and distinguish them by maliciousness.

**This concludes our
presentation, Thank You**