



# ProtectMe!

Milestone 4

# Context

In the current days, the various forms of social media that exist have become a very impactful part of the common person's life, and day by day, we can see a rapidly rising user base for every social media platform.

And with this fast growth in usage, there is also a growth in users who try to take advantage of these social media platforms to spread malicious content and deceitful information.

Although there have been a lot of attempts to monitor the spread of malicious content in social medias, most of them rely on detecting spam attacks and detection of improper content in a social context, whilst the ProtectMe at the start aimed to detect malicious content through the analysis of all the content made available by a given post (image, video and text), but soon saw that this wasn't viable due to the lack of tools that enable this objective. Thus, the ProtectMe! project's goal soon became to develop these tools, in order to enable future developments in this area.

# Project Objective

- Analysis of the current State of the Art
- Generate a pipeline to analyse social media content:
  - Create a social media content aggregator
  - Implement APIs to extract content from a given post's media content
  - Generate tools using Natural Language Processing tools to analyze the posts' textual content
- Generate an easily scalable Database Schema to store the data gathered
- Create a Graphical User Interface to analyze the data
- Create a service to feed the data into the Interface using a REST API
- Generate tools to automate the analysis and gathering of social media content
- Generate tools to easily export the data according to different parameters and in different formats

# But what has been achieved?

- Analysis of the current State of the Art ✓
- Generate a pipeline to analyse social media content:
  - Create a social media content aggregator ✓
  - Implement APIs to extract content from a given post's media content ✓
  - Generate tools using Natural Language Processing tools to analyze the posts' textual content ✓
- Generate an easily scalable Database Schema to store the data gathered ✓
- Create a Graphical User Interface to analyze the data ✓
- Create a service to feed the data into the Interface using a REST API ✗
- Generate tools to automate the analysis and gathering of social media content ✓
- Generate tools to easily export the data according to different parameters and in different formats ✗

Demo

# What's left to do?

- Finish the remaining objectives
- Clean up the codebase
- Write Documentation about the tools' inner workings and how to use them



Any questions?