Abstract

Social Media Hate Speech has continued to grow both locally and globally due to the increase of Online Social Media web forums like Facebook, Twitter and blogging. This has been propelled even further by smartphones and mobile data penetration locally. Global and Local terrorism has posed a vital question for technologists to investigate, prosecute, predict and prevent Social Media Hate Speech.

This study provides a social media digital forensics tool through the design, development and implementation of a software application. The study will develop an application using Linux Apache MySQL PHP and Python. The application will use Scrapy Python page ranking algorithm to perform web crawling and the data will be placed in a MySQL database for data mining.

The application used Agile Software development methodology with twenty websites being the subject of interest. The websites will be the sample size to demonstrate how the application
Social Media Forensics for Hate Speech Opinion Mining

works together with the Python libraries as the framework for web crawling. MySQL data mining, database query application models will be used in performing the search of the lexicon of keywords for hate speech. Inferences from the data mined from crawled web pages will be drawn.

References


Index Terms

Computer Science

Information Sciences

Keywords

Web Forums, Social Media, Linux Apache MySQL PHP Python (LAMP), Hate Speech, Opinion Mining, Digital Forensics.