## 

**Individual Report**

**Member name:** [Rahul Nayak](mailto:rrnayak@asu.edu)

**Evaluated by:** [Anuranjan Dubey](mailto:adubey37@asu.edu) [Gautham Vijayaraj](mailto:gvijaya6@asu.edu)

**Date: 09/09/23**

**Tasks Assigned:**

* Preparing and evaluating the In-depth report.
* Preparing and evaluating the individual progress report.
* Preparing Weekly report.
* Studying the research paper "Malicious Profile Detection on Social Media: A Survey Paper”.

**Summary:**

* This paper holds significant relevance to the overarching theme of detecting suspicious activities on social media through the strategic application of data mining and machine learning techniques
* The rationale for this review of this paper is that it provides insights into the evolving threats and risks present on social media platforms, highlighting the urgency of addressing these issues
* Furthermore, it addresses the critical need for measures in the digital world, emphasizing the importance of staying ahead of malicious actors who exploit social media platforms for dangerous purposes.
* Through providing insights into data collection, preprocessing, and evaluation methods, the paper offers a comprehensive roadmap for constructing robust detection systems tailored to the unique challenges presented by different social media platforms.
* The paper also provides insights into the selection of machine learning algorithms tailored to specific types of malicious profiles on social media, aiding in informed decision-making.
* Evaluation metrics for assessing the accuracy of detection models are also discussed, facilitating the assessment of security measures.
* This paper mainly bridges the gap between theoretical concepts and practical implementation, empowering us to develop sophisticated surveillance mechanisms that can identify and mitigate suspicious activities in real time.
* In essence, this paper is a vital cornerstone in the pursuit of enhancing security and trust within social media, where data mining and machine learning emerge as indispensable tools for countering emerging threats.

**Outcome:**

In summary this paper mainly outlines about the malicious profiles that are created on social media and the threats they pose to users.It also shows different machine learning algorithms that are applied to detect different types of suspicious activities on various social media platforms, including fake, spam, or duplicate profiles. Each algorithm brings its unique strengths to the task of profile detection, depending on the nature of the data and the specific platform being analyzed.

**References** *(with citation)*

[1] S. Shinde and S. B. Mane, "Malicious Profile Detection on Social Media: A Survey Paper," 2021 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), Noida, India, 2021, pp. 1-5.

**Evaluation of Report  
  
Evaluation by:** [Anuranjan Dubey](mailto:adubey37@asu.edu) **Date: 10 September 2023**

**Is the weekly member report complete with all the major result(s) of the paper(s)? If not, provide as many examples of the major result(s) missing in the written report as possible. (in bullet form). [within 100 words]**

* The summary underscores the paper's importance in addressing malicious profiles on social media.
* It emphasizes the paper's focus on detecting suspicious activities through diverse machine learning algorithms.
* The summary mentions the paper's relevance, content, and its bridging of theory and practice.

**Is each section of the guidelines sufficiently completed? If not, point out what is missing. [Normally within 40 words].**

Yes, each section of the guidelines is sufficiently completed.

**Is the quality of this version of the written report satisfactory? If not, then why not? [Normally within 40 words]**

Yes

**Approved by:** [Gautham Vijayaraj](mailto:gvijaya6@asu.edu) **Date: 11 September 2023**