**Individual Report**

**Member name:** [Sangeeth Santhosh](mailto:ssantho9@asu.edu)

**Evaluated by:** [Justin Young](mailto:jtyoun15@asu.edu) [Gautham Vijayaraj](mailto:gvijaya6@asu.edu)

**Date:** 09/02/23

**Tasks Assigned:**

* Preparing questions related to information assurance and security and the main project topic, along with finding two research papers for each of the questions prepared.
* Performing the literature review of research papers assigned.
* Preparation of an in-depth report of one research paper among the research papers found - ‘Classifying Suspicious Content on Social Media Networks’.
* Evaluation of individual task and in-depth report of [Anuranjan Dubey](mailto:adubey37@asu.edu).
* Preparation of meeting notes for each meeting conducted by the group this week.
* Collaborate with [Gautham Vijayaraj](mailto:gvijaya6@asu.edu) to prepare the weekly report for the week ending September 4, 2023.

**Summary:**

* Reviewed the research paper ‘Classifying Suspicious Content on Social Media Networks’.
* The paper deals with classification of content on Twitter into suspicious and non-suspicious.
* Integrity of honest users is not compromised in this paper as only accounts suspended by Twitter are handled.
* Different machine learning algorithms are used for the classification and its corresponding accuracy, precision, recall and f1 score is found.
* At the evaluation stage, it is obtained from the results that the accuracy of Naive Bayes and Random Forest is 88.06 and 92.59 respectively.
* Apart from this, both the methods have small false negative values, which means that incorrect classification has been successfully avoided in most cases.
* Overall, the paper provides useful information to any social media user and helps them avoid fake accounts on Twitter and any corresponding spam content generated by such accounts.

**Outcome:**

Categorization of suspicious content on Twitter was done using Sentiment Analysis and different Machine Learning algorithms by considering only accounts that were suspended by Twitter.

**References** *(with citation)*  
  
[30] N. A. Ghanem and H. M. Habeeb, "Classifying Suspicious Content on Social Media Networks," 2021 International Conference on Advanced Computer Applications (ACA), Maysan, Iraq, 2021, pp. 171-175

**Evaluation of Report  
  
Evaluation by:** [Justin Young](mailto:jtyoun15@asu.edu) **Date:** 9/3/23

**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]**

Yes

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

Yes

**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: 9/4/2023**