**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: 09/16/23**

**Tasks Assigned:**

* Preparing and evaluating individual progress reports.
* Preparing and evaluating individual in-depth reports.
* Performing the literature review of research papers assigned.
* Preparation of an in-depth report of one research paper among the research papers found – ‘Exploring and Detecting Opinion Spam on Social Media’

**Summary:**

* Reviewed the research paper – ‘Exploring and Detecting Opinion Spam on Social Media’.
* This paper focuses on detection and analysis of opinion spam on social media while also developing a model to detect this type of spam.
* The steps mentioned in the paper for opinion spam detection are – Conduction of empirical quantitative analysis and proposal of context-based classification to detect opinion spam.
* There is no issue of incorrectly choosing legitimate users as opinion spam in this research paper as the input dataset contains only those users who have engaged in opinion spam.
* The empirical analysis step involves three main parts – Linguistic Styles, Content Analysis and Social Network Analysis.
* Opinion spam detection is done based on user-centric features which are of different categories.
* A classifier is created by constructing a graph which has two features – user’s opinion spam followers and followees. Following this, a logistic regression classifier is built.
* Final results are analyzed using the dataset and the experiment conducted, with different methods being used.
* Each method generates different scores and the main type of score considered in this paper is f1 score.
* Successful analysis is done using the different steps proposed in the paper and the desired result is obtained.

**Outcome:**

Effective classification of users into legitimate and opinion spam is done using empirical quantitative analysis, classification and detection.

**References** *(with citation)*

[31] Y. Xiao and J. Qiu, "Exploring and Detecting Opinion Spam on Social Media," 2020 Chinese Automation Congress (CAC), Shanghai, China, 2020, pp. 7570-7573, doi: 10.1109/CAC51589.2020.9327093.

**Evaluation of Report  
  
Evaluation by:** [Justin Young](mailto:jtyoun15@asu.edu)

**Date:9/18/2023**

**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]**

* Yes, all major points are covered

**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: 9/18/2023**