**Individual Report**

**Member name:** [Gautham Vijayaraj](mailto:gvijaya6@asu.edu)

**Evaluated by:** [Krupaben Kothadia](mailto:kkothadi@asu.edu)

**Date: 09/04/2023**

**Tasks Assigned:**

* Identifying 5 research papers on Privacy preserving data mining for detecting suspicious activities on social media.
* Preparing an individual in-depth report.
* Preparing an individual progress report.
* Preparing the Project Plan.
* Evaluating the Gantt Chart.
* Evaluating the individual progress report and in-depth report prepared by [Krupaben Kothadia](mailto:kkothadi@asu.edu).
* Preparing the Weekly Report with [Sangeeth Santhosh](mailto:ssantho9@asu.edu).
* Approving 4 team members in-depth reports.
* Approving 4 team members' research domain and their research papers.
* Addressing Team Member’s Questions Regarding Project and guiding them how to proceed with the in-progress report and in-depth report.
* Organizing google drive.

**Summary:**

* Identified 5 research papers in the domain of the research I will be working on which is based on privacy preserving data mining.
* My area of research focuses on maintaining the balance between the efficiency of the data mining technique to detect threats as well as safeguarding the data integrity and user privacy of Social Media.
* An In-Depth study of [**An Overview of Privacy Preserving Data Mining**](https://drive.google.com/file/d/1XipNBU2_EKn2yklo7fJbQaWyXa1nXMy4/view?usp=drive_link) has been conducted.
* The list of **privacy preserving data mining algorithms** discussed were :
  + Data Distribution
  + Data Distortion
  + Data Mining Algorithms
  + Data Hiding
* The list of **privacy protection technologies** discussed were :
  + Data Distortion Techniques
  + Distributed Privacy Preserving Mining
  + Reconstructed Technology
  + Anonymous Privacy Protection

**Outcome:**

The main focus area of this paper is to find different methods of maintaining privacy while performing data mining. Thus to preserve privacy, secured data mining techniques and privacy preserving data mining algorithms were explored in this paper. However, mobile and data stream mining regarding privacy is uncharted territory. So it needs to be explored in the future.

**References** *(with citation)*  
  
[5] Xinjun Qi, Mingkui Zong, “An Overview of Privacy Preserving Data Mining,” in *“International Conference on Environmental Science and Engineering (ICESE)”*, Harbin, China, 2011, pp.1341-1347

**Evaluation of Report  
  
Evaluation by:** [Krupaben Kothadia](mailto:kkothadi@asu.edu) **Date: 09/04/2023**

**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 the privacy preserving data mining algorithms and privacy protection technologies used in the paper has been mentioned in the report.

**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, the quality of this version of the written report is satisfactory.

**Approved by:** [Krupaben Kothadia](mailto:kkothadi@asu.edu) **Date:** 09/04/2023