**Individual Report**

**Member name:** [Justin Young](mailto:jtyoun15@asu.edu)

**Evaluated by:** [Yeshwanth Reddy Chennur](mailto:ychennur@asu.edu)

**Date: 9/25/2023**

**Tasks Assigned:**

* Prepare midterm overview report documenting all project contribution up to the current date

**Summary:**

* Week 0:
  + Found 2 research papers relating to our project goal.
  + Helped in preparing the project plan.
* Week 1:
  + Selected “ensuring model security” as my topic of focus for the duration of the project.
  + Helped prepare the Gantt chart.
  + Found 4 more research papers relating to my topic of focus.
  + Prepared an individual in-depth and progress report on the research paper “Behavior-Based Malware Detection System Approach For Mobile Security Using Machine Learning”
  + Evaluated another member’s individual in-depth and individual progress report
* Week 2:
  + Prepared individual in-depth and individual progress report on the research paper “Comparative Analysis of Machine Learning Models in Computer Network Intrusion Detection”.
  + Helped prepare the weekly report.
  + Evaluated another member’s individual in-depth and individual progress report
* Week 3:
  + Prepared individual in-depth and individual progress report on the research paper “Cooperative Machine Learning Techniques for Cloud Intrusion Detection”
  + Evaluated another member’s individual in-depth and individual progress report
* Week 4:
  + Prepared individual in-depth and individual progress report on the research paper “Machine Learning-based web security intrusion detection system”.
  + Evaluated another member’s individual in-depth and individual progress report
  + Helped prepare the weekly report.
  + Prepared individual and group midterm reports.
* Links to reports mentioned above:
  + Week 0: [Weekly\_Report\_#0\_CSE 543\_Group\_1-5.docx](https://docs.google.com/document/d/15kbBNp9XjOqkM1fqZjIT-5aGyXUpRX09/edit?usp=drive_link&ouid=117665874805656519311&rtpof=true&sd=true)
  + Week 1: [Justin\_Young\_Individual\_Progress\_Report.docx](https://docs.google.com/document/d/1yLOFd6TlRcORA_77GaA5nAR-1JYfo_Wa/edit?usp=drive_link&ouid=117665874805656519311&rtpof=true&sd=true)
  + Week 2: [Justin\_Young\_Individual\_Progress\_Report.docx](https://docs.google.com/document/d/1a41OxN9o3rHKHoXGryx3KSuCAY6Ci6RW/edit?usp=drive_link&ouid=117665874805656519311&rtpof=true&sd=true)
  + Week 3: [Justin\_Young\_Individual\_Progress\_Report.docx](https://docs.google.com/document/d/1S1dC4lbApRAUGSJ57dLDH0JpsRkCe1iP/edit?usp=drive_link&ouid=117665874805656519311&rtpof=true&sd=true)
  + Week 4: [Justin\_Young\_Individual\_Progress\_Report.docx](https://docs.google.com/document/d/1GsAG2hOaPrTGlJhRIRS64wP2Y7kWi9Hs/edit?usp=drive_link&ouid=117665874805656519311&rtpof=true&sd=true)

**Outcome:**

As of the current date, I contributed by finding research papers relating to our overall project topic “Detecting Suspicious Activities on Social Media Using Machine Learning and Data Mining”, prepared individual reports on my topic of focus and prepared the weekly reports and Gantt charts on the specified weeks.

**References** *(with citation)*

[1] Z. Chkirbene, R. Camila, A. Erbad, S. Kiranyaz, N. Al-Emadi and M. Hamdi, “Cooperative Machine Learning Techniques for Cloud Intrusion Detection”, In 2021 International Wireless Communications and Mobile Computing, Harbin City, China pp. 837-842, doi: 10.1109/IWCMC51323.2021.9498809

[2] S. Vanjire and M. Lakshmi, “Behavior-Based Malware Detection System Approach For Mobile Security Using Machine Learning, in 2021 International Conference on Artificial Intelligence and Machine Vision, Gandhinagar, India, pp. 1-4, doi: 10.1109/AIMV53313.2021.9671009

[3] C. Chen, J Zhong and W. Chen, “Machine Learning-based web security intrusion detection system”, in 2021 3rd International Academic Exchange Conference on Science and Technology Innovation, Guangzhou, China, pp. 173-177, doi: 10.1109/IAECST54258.2021.9695557

[4] E. Osa and O. E. Oghenevbaire, “Comparative Analysis of Machine Learning Models in Computer Network Intrusion Detection”, In 2022 IEEE Nigeria 4th International Conference on Disruptive Technologies for Sustainable Development, Lagos, Nigeria, 2022, pp. 1-5, doi: 10.1109/NIGERCON54645.2022.9803175

**Evaluation of Report  
  
Evaluation by: Yeshwanth Reddy Chennur  
Date: 9/25/2023**

**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.**

* Yes, The report is complete with all the major results.

**Is each section of the guidelines sufficiently completed? If not, point out what is missing.**

* Yes, Each section’s guidelines are sufficiently detailed.

**Is the quality of this version of the written report satisfactory? If not, then why not?**

* Yes, The quality of the report is satisfactory

**Approved by:** [Krupaben Kothadia](mailto:kkothadi@asu.edu) **Date: 9/25/2023**