**Individual Report**

**Member name: Justin Young**

**Evaluated by:** Yeshwanth Reddy Chennur

**Date: Sep 18, 2023**

**Tasks Assigned:**

* *In-depth report on “Cooperative Machine Learning Techniques for Cloud Intrusion Detection”.*
* *Evaluate another member’s individual progress and in-depth reports.*

**Summary:**

* Created an in-depth report on the chosen research paper.
* The research proposes a new machine learning model for attack detection and classification in cloud computing systems called the SPC model.
* Three steps are taken to create the model framework (Off-line data partitioning, model training, model testing)
* The UNSW dataset is used to train the model.
* The SPC model is also tested against two other ML algorithms, Ensemble and Complex Tree.
* The results of the analysis show that SPC significantly outperformed the other models, 20% above traditional approaches.

**Outcome:**

When working with cloud computing systems to ensure security on social media, this paper provides a proven model that can be considered for implementation.

**References** *(with citation)*

[28] 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

**Evaluation of Report  
  
Evaluation by: Yeshwanth Reddy Chennur  
Date: Sep 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, The important elements in the report have been examined.

**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 are 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 the report is satisfactory.

**Approved by:** [Krupaben Kothadia](mailto:kkothadi@asu.edu) **Date:** 09/18/2023