



CSE 543: Information Assurance and Security

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**Using Blockchain and Machine Learning to significantly improve the security of Cloud-based systems.**

**Group 14 Weekly Report - 5**

**Person prepared this report:** Sai Greeshma Gandham

**Person approved this report:** Dheeraj Neela

**Person submitted this report:** Dheeraj Neela

**List of members**

1. Dheeraj Neela (Group Leader)
2. Sai Greeshma Gandham (Deputy Leader)
3. Disha Prakash Bhukte
4. Meghana Amirineni
5. Aditi Shashank Joshi
6. Sujana Duvvuri Venkateswarlu
7. Akhil Kumar Gudipoodi

**Meeting Notes**

1) 02/15/2022 - 7:00 PM

Reviewing the previous week in progress tasks such as exploration of trained data used for supervised learning and ML techniques.

2) 02/17/2022 – 8:00 PM

Review the existing work on using unsupervised ML techniques to detect intrusions and exploration of training data used for unsupervised learning

3) 02/21/2022 – 6:00 PM

Exploring unsupervised ML algorithms such as k-means, DBSCAN and expectation maximization.

## Tasks Summary

Task Number	Task Name	Details of Task	Member	Status
1	Reviewing the previous week in progress	Exploration of trained data used supervised learning and ML techniques.	Everyone	Completed
2	Exploration of unsupervised ML techniques	Analyze some existing unsupervised ML techniques	Akhil Kumar Gudipoodi, Meghana Amirineni	Completed
3	Exploration of training data used for unsupervised learning	Did some research on various data.	Sai Greeshma Gandham, Dheeraj Neela	Completed
4	Threats Review	Brainstormed on different threats identified.	Everyone	Completed
5	Reviewing various Web Security vulnerabilities	Overview of SQL injection and types of SQL injections.	Akhil Kumar Gudipoodi and Disha Prakash Bhukte	In progress
6	Reviewing of Distributed Security vulnerabilities	Overview of DOS attack and types involved in it.	Aditi Shashank Joshi, Dheeraj Neela, Sujana	In progress

## Task Progress

Task Name	Member	Date of Review	Reviewer(s)	Review Conclusion	Recommended Action
Reviewing the previous week in progress	Everyone	02/15/2022	Everyone	Satisfactory	No Action Required
Exploration of unsupervised ML techniques	Akhil Kumar Gudipoodi, Meghana Amirineni	02/17/2022	Akhil Kumar Gudipoodi, Meghana Amirineni	Needs work	Explore ML Techniques
Exploration of training data used for unsupervised learning	Sai Greeshma Gandham, Dheeraj Neela	02/17/2022	Sai Greeshma Gandham, Dheeraj Neela	Satisfactory	No Action Required
Threats Review	Everyone	02/18/2022	Everyone	Satisfactory	No Action Required
Reviewing various Web Security vulnerabilities	Akhil Kumar Gudipoodi and Disha Prakash Bhukte	02/21/2022	Akhil Kumar Gudipoodi and Disha Prakash Bhukte	Needs Work	Exploring Web Security vulnerabilities
Reviewing of Distributed Security vulnerabilities	Aditi Shashank Joshi, Dheeraj Neela, Sujana	02/21/2022	Aditi Shashank Joshi, Dheeraj Neela, Sujana	Needs Work	Exploring Distributed Security vulnerabilities

## Issues

### 1. No Issues

### Gantt chart for showing the major tasks

[illegible]