CSE 543: Information Assurance and Security

Using Machine Learning to detect classifying Malware in IoT Systems

Group 14 Weekly Report - 6

Person prepared this report: All the members of the group

Person approved this report: Amogh Manoj Joshi

Person submitted this report: Amogh Manoj Joshi

List of members

1. Amogh Manoj Joshi (Group Leader)
2. Priyadarshini Venkatesan (Deputy Leader)
3. Vignan Varma Chekuri
4. Venkata Karthik Reddy Peddireddy
5. Siva Priya Bollineni
6. Anusha Akuthota
7. Sarika Naidu Chirki
8. Ramya Thota

Meeting Notes

02/23/2023: [7:30 pm - 8:00 pm] [Mode: Virtual]

- A team meeting was held to discuss on the feedback received from the TA and the professor during Wednesday's review session
- As suggested by the TA, the group was organized into 2 teams: 4 members focusing on Machine Learning based approaches and the other 4 members focusing on Deep Learning based approaches. This would organize the reading efforts of the group and eventually help form the final report in a structured manner
- Also, the group was focusing on finding and reading the best and highly cited papers in the domain till now, as instructed by the professor, the group members decided to also include casual papers in the next week, which will broaden their knowledge in the domain
- **Attendance:** All the members were present

02/25/2023: [7:30 pm - 8:00 pm] [Mode: Virtual]

- The group members had some common concerns and hence a meeting was scheduled
- Most of the members had a major assignment's submission on Sunday and were caught up in that and hence were finding it difficult to complete their study report before the deadline. Also, with the midterms coming in a few days, everyone was prioritizing studying for their exams.
- A collective decision was made to shift the study report deadline from 25th Feb to 3rd March. The week following that is spring break and hence the group decided to put in more hours during that break to cover up the lag.
- **Attendance:** All the members were present

Tasks Summary

Task Number	Task Name	Description of Task	Member	Task Status
1	Splitting of the group into 2 teams	Members were divided into 2 group, one group for focusing on papers related to Deep learning techniques and the other group on machine learning techniques	All members	Completed
2	Adding more casual papers for the next week	The team will be working on casual paper reading next week.	All members	On-going
3	Reading of paper set 2	The members of the team are working on analyzing the paper 2.	All members	On-going

Task Progress

Task Name	Member	Date and time of Review	Reviewer(s)	Mode of Review	Review Conclusion	Recommended Action
1)Splitting of the group into 2 teams	All the members of the group	02/25/2023	Amogh Joshi	Individual	Satisfactory	Completed
2)Adding more casual papers for the next week	All the members of the group	02/26/2023	All the members of the group		Needs work	Ongoing
3)Reading of paper set 2	All the members of the group	02/27/2023	All the members of the group	-	Needs work	Ongoing

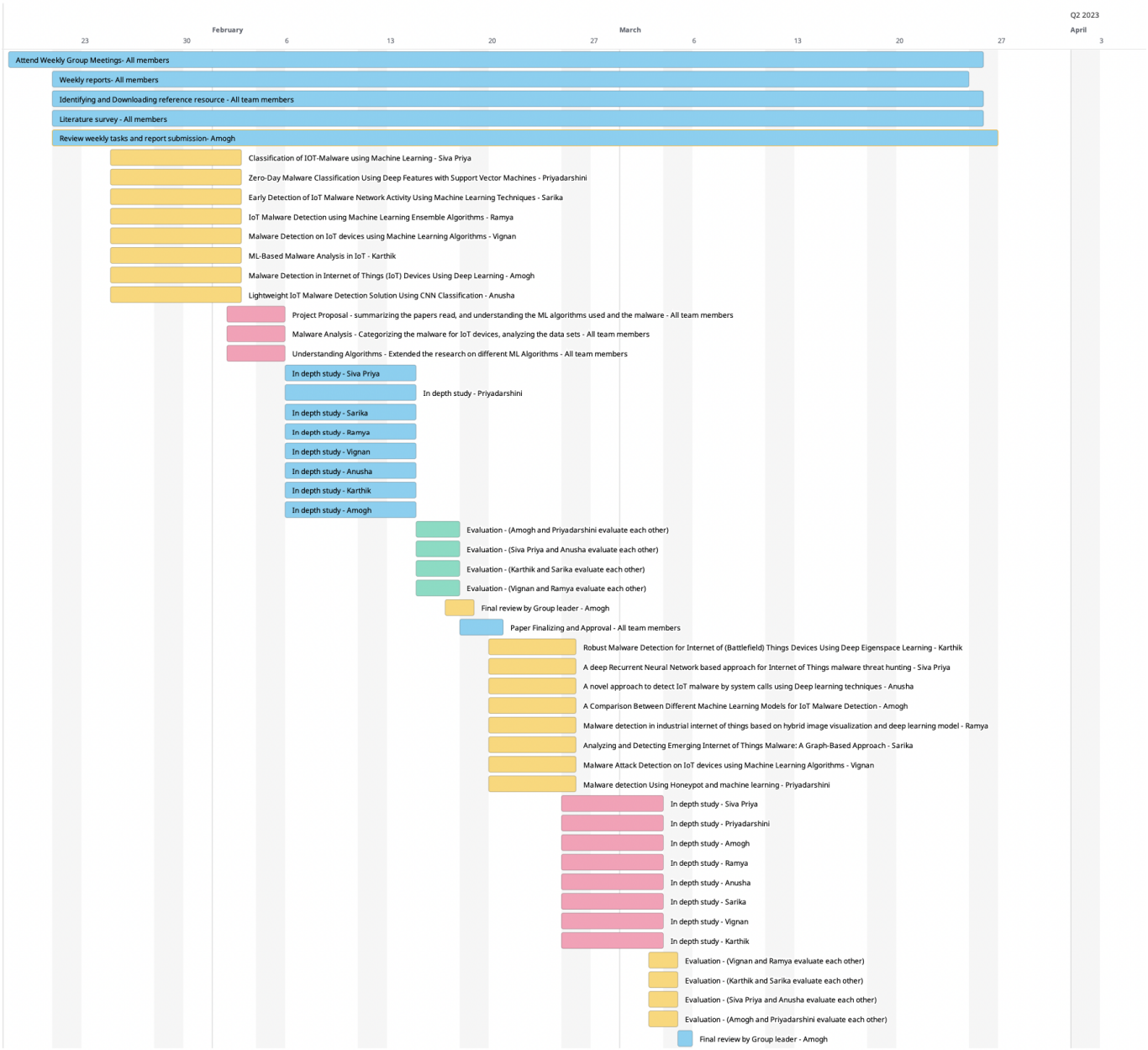
Problems:

Faced by: All Team Members
Status: Solved
Problem:

- We split the group into two half, with each group focusing on a different research area to enable broader comprehension of topics such Machine learning and Deep learning approaches.
- According to the other submissions and midterm preparation which were encountered by the team, due to these reasons, postponed the assignment of analyzing individual team members in-depth paper reports to the following week.

Gantt Chart:

[Link to Gantt Chart]



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In Depth

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