

CSE 543 Group 16 Team Charter

Group leader: Laela Olsen

Deputy leader: Anchala Balaraj

Members: Jin Heo, Ahmad Karimi, Yesha Modi, Vignesh Mohana Velu, Nikhil Swami, Advait Venkatsubramanian

Roles and responsibilities

Each team member is responsible for making contributions to every deliverable, including the initial project proposal, the initial paper submission, the final presentation slides, and the final revised paper. The specific responsibilities of each team member for each assignment will be decided in group meetings once the team begins working on that assignment.

All team members will be responsible for finding at least one research paper related to our project topic for inclusion in the project proposal. The group members responsible for finding the other two research papers will be decided in a team meeting.

All team members will attend every team meeting when possible. If a team member is unable to make it to a team meeting because of a prior commitment, they will let the team know so that the team can take notes and let them know what was discussed and decided during the team meeting.

Our team has a tentative plan to assign group members to subteams for literature review and initial work on implementation. The first subteam will be responsible for detailed study of all of the research papers contributed by group members and the second team will begin analyzing the dataset we choose to work on and planning the work that our team will do to expand upon existing material.

The team leader will be responsible for organizing and leading team meetings, assigning tasks to team members, and submitting deliverables. The deputy team leader will also be responsible for assigning tasks to team members and determining how to split team members into subteams for various deliverables.

All other team members will be responsible for completing all of their assigned tasks and for being communicative with the rest of the team when it comes to their ideas and progress. Team members are encouraged to reach out to the rest of the team whenever they need assistance with any project task.

Draft titles, outline of story, topic selection

Draft title: Applications of Machine Learning tools to DDOS Attack Detection and Prevention

Our team plans to utilize an existing dataset, CICIDS2017, which contains realistic simulated network traffic containing several types of attacks. We plan to measure the performance of different machine learning techniques on detecting attacks, including DDOS attacks. We also plan to discuss how machine learning could be implemented into supply chains to prevent damage done by cyberattacks.

Communication plan

The team will communicate with each other primarily through our team Discord server. We will also be responsive to any communication over Canvas and email.

Our team plans to meet weekly or biweekly, depending on our needs for discussing and completing the deliverables. We will meet either virtually over Discord or in person on campus. Our team tentatively plans to meet on Mondays at 3pm after the CSE 543 lecture.

Deliverable schedule

All team members should complete their assigned work for a deliverable at least forty-eight hours before the due date of that deliverable to ensure that the team has enough time to review others' work. The group leader will be responsible for reviewing and submitting each deliverable before the due date. The specific deliverables assigned to each subteam or group member will be decided in group meetings once our team begins working on each deliverable.

Contingency plan

If a team member is not able to complete their assigned work by the team's assignment due date, they should let the team know so that we can identify group members with available time to complete the work by the due date. If a team member is noncommunicative forty-eight hours before the due date or is not on track to complete their work twenty-four hours before the due date, other team members will begin working to ensure the assignment is completed.

If a team member does not complete their work by the deadline, this will be reflected in their crediting on that deliverable, and the team leader or another group member will email the professor to let him know if a team member's lack of contribution becomes a problem.