

Progress Report

This report is written to support our Pioneer scholars to continue building on their strengths and to dive deeper and continue to challenge themselves both currently and in their future academic endeavors.

Scholar's name: Aadi Shah

Professor's name: Professor Dughmi

Date of report: 08/20/2023

Author of report: Nabaa Al Hashimi

Research Paper Topic: Smoothen' the function in a classification model to make it less susceptible to adversarial attacks caused by small perturbations in input data

Assessment Category	Exceeding Expectations	Meeting Expectations	Improvement Needed
General Research Progress	X		
Progress Towards Learning Goal Objectives	X		
Assignment Completion		X	
Group Session Participation	X		
Individual Session Participation	X		

Session Attendance: Aadi's attendance record has been exemplary. He has attended each and every group and individual session. He is on time for all sessions, and ensures that he and his technology are ready. He is attentive during the group sessions when the lecture is presented which allows him to masterfully complete each assignment after the group sessions. During his individual sessions, he continues to arrive on time as a leader with a clear agenda for what he wants to accomplish during the hour session. Attending all the sessions on time is an essential part of the program that Aadi understands and takes seriously. The remaining sessions and deadlines coming up are:

- 3rd individual session: 08/22/2023 at 8:30 PM US EST
- 4th individual session: 08/29/2023 at 8:30 PM US EST
- Peer review: 09/01/2023 at 10:00 PM US EST
- 5th individual session: 09/05/2023 at 8:30 PM US EST
- Final Paper Due Date: 09/17/2023 at 11:59 PM US EST

How is the research progressing overall? Is the scholar on track to complete a strong research paper?

Aadi is progressing very successfully with his research and is certainly on track to complete a strong paper by the due date. He has done a great job of brainstorming and coming up with ideas for his paper, then finding the appropriate literature to incorporate. Given the scope and time parameters of this program, he has been consistently mindful of this and was continually willing to be adaptive to modify his topic, research question, and sections in the paper to be more manageable and accurate in order to be completed by the due date. He is able to take the Professor's feedback seriously and act upon it which has now set him up for success to complete an interesting paper. We are very impressed and proud of how proactive and devoted he has been throughout the research process. We encourage Aadi to continue to work efficiently and to never hesitate to reach out for help if he ever needs it! As a general reminder, the Pioneer Writing Center is available to assist all scholars with their research paper. We highly recommend that these valuable resources are utilized throughout the writing process. Information about the Writing Center is available on the Materials page in Schoology.

In what areas should the scholar focus their efforts for further growth and improvement? What are some specific actions the scholar could take?

Aadi has been doing a phenomenal job progressing through this program. He never hesitates to reach out to the Professor or me with any questions or confusion. Aadi must continue to put effort into communicating his complex ideas more clearly. He seems to get stuck in the details and needs to work on looking at the big picture of his ideas.

What are the scholar's top strengths, as displayed so far in the program?

Aadi is extremely intelligent. He has a good grip on the concepts he is studying and was completely immersed with the material during the group sessions. Aadi is very hardworking and prepared for his sessions. He is enthusiastic about this concentration and his research topic, which has been a pleasure for Professor Dughmi and I to see.