Log Book

November 26, 2023 (First Day)

Explored different topics and picked our topic.

- Predicting the performance of a wind turbine through AI software

November 27, 2023

We both worked and finished background research about wind turbines and a rough drawing of our wind turbine. Added citations of links and websites used. Finished writing our hypothesis and research on the CYSF platform. Kavyaa went to the Dollar Store and bought all the materials. (400 popsicle sticks, trifold, hot glue gun, hot glue gun sticks, basket, and sharpie)

November 28, 2023

We both started to work on the rough copy of our wind turbine and explored techniques that might help us improve the good copy.

November 29, 2023

We worked on the rough copy of our wind turbine and experimented with different shapes and styles.

December 2, 2023

Started to work on the good copy of our windmill

December 9, 2023

We worked on our good copy, blades were made using plastic cups. Finished it within 7 hours

December 16, 2023

Placed the windmill in front of the fan and checked how well it worked. We checked for possible sources of error.

December 23, 2023

One big source of error was that for the blades we used plastic cups, but that was too heavy so we had to switch to paper to get it to work.

December 30, 2023

Tried again by placing the physical copy of the windmill in front of the fan to check how well it worked now after making some adjustments.

January 6, 2024

Fixed any final possible sources of error like making the base steady.

January 13, 2024

Completed "sources of error" on the CYSF platform

January 20, 2024

Wrote out our observations and analysis on the CYSF platform, and finished it within 6 hours.

January 27, 2024

Wrote our completed procedure on the CYSF platform (completed). Wrote our used variables on the CYSF platform, and finished.

February 3, 2024

Filled out the application section on the CYSF platform, and worked together to finish it within 2 hours

February 10, 2024

Finished the acknowledgment section on the CYSF platform.

March 2, 2024

Finally, we added our conclusion of what happened to the CYSF platform.

March 9, 2024

At this point, we had finished everything that needed to be finished online on the CYSF platform and finished a physical copy of the windmill. Ready for submission.