

11/12/20

Today I started working on building my proposal as well as gathering resources I can use for background research as well as insights I might be able to apply to my project

12/12/20

Today I worked on completing my proposal by finalizing my question hypothesis and adding my variables after spending some time thinking about them.

13/12/20

Today I read through all the resources that I gathered on Friday gathering all the information that applied to my project and bringing together and completing my background research.

15/12/20

Today I looked at a source that contained a ton of historic march madness data that I can pull from when I am creating my experiment. It also contained some unique features of data called Sagarin ratings and Sagarin rankings.

16/12/20

I ran the march madness Monte Carlo simulation 20,000 times to see how accurate the model is.

17/12/20

I continued my search for sources that I could pull data for my experiment from.

20/12/20

Today I downloaded sports reference and sagarin data and inserted it into my spreadsheet.

23/12/20

Today I began to gather all my data and insert it into an excel spreadsheet for cleaning. I also cited all the sources I pulled from.

26/12/20

I have begun cleaning my data correcting all the inconsistencies within the data so the computer is able to analyze it when I run the program.

28/12/20

Today I worked on gathering all of the Sagarin statistics from the years 2000-2017 together in 17 different tabs within the spreadsheet.

31/12/20

Today I downloaded NCAA tournament data from 1985-2019 and inserted it into a spreadsheet.

1/1/21

Today I worked on cleaning the data on the 17 different tabs within the spreadsheet from 2000-2017 so that the computer is able to interpret the data properly without any issues.

3/1/21

Today I worked on starting a data seed analysis on the past 17 years of March Madness. We worked looking for a connection between the sagin ranking, score, and seed through R2 but we couldn't find a really direct correlation.

4/1/21

Today I worked on completing my march madness data seed analysis. I continued to look for specific correlations between the data but again I couldn't find anything connecting between the Sagarin data and rankings.

5/01/21

Today I did a whole bunch of data analysis from seed information from 2000-2017. Looking at how upsets occur and how frequently they happen, and I also looked at the seeds compared to the games played per round and team seeding. I also worked on planning out the experiment and how we will be running it.

Most of this analysis is based on the info from:

<https://towardsdatascience.com/march-madness-9212109bc8e8>

<https://ecapitaladvisors.com/blog/machine-learning-applied-to-march-madness/>

7/01/21

Today I worked on building the first model included in my science fair project that was solely based on regular-season scoring performance which used sagarin data as the main data variable.

8/01/21

Again today I worked on completing the building of my first model (regular-season scoring performance) and I also tested it within the excel spreadsheet.

10/01/21

Today I worked on starting the process of building model 2, predicting the right number of winners through seeding.

11/01/21

Today I continued my work on model two but didn't quite get to finish it yet because it required a lot more manual work than model 1.

12/01/21

Today after school I was able to finish the testing phase of my project following I had some extra time to do some testing on my model to make sure it worked smoothly

12/01/21

Today in this work period at school I worked on my logbook and noted the things I did within my experiment over the past couple of weeks. I workout logging the creation of my models as well as any other things I did to build my project this past little while. Overall I just worked on making sure my logbook was up to date in terms of the point where I am in this project.

13/01/21

Today I worked on starting the process of building model three, predicting the right number of winners through seeding.

14/01/21

Today I continued the building of model three as again it took a large amount of time to build this model as we had to be very specific about the work we did within it.

15/01/21

Today was the final day I worked on building my third model, after I finished building I worked on testing it to make sure it worked smoothly.

16-17/01/21

This weekend I worked on testing my models and gathering results and observations from what I saw and what happened when I ran the models.

18-21/01/21

On these days I solely worked on creating the script I will use when verbally presenting my project the script includes the whole entire process of my experiment.

21/01/21

Today I worked on my script for the presentation of my project. I worked on my results and the organizing of my images within a google doc that contains my script organized into a project form Question, Hypothesis, etc...

23/01/21

Today I worked on creating my slides presentation on google docs using the script I created and simplifying the explanation.

24/01/21

Today I worked on finalizing all things around my project. I worked on completing my slides presentation, finalizing my logbook, and presenting my verbal presentation.z