Data Science Program Final Project

Executive Summary

E-Sports!

I will be working with an e-sports dataset to see how different games impact the industry. Based on their TotalUSD worth, we will see how players and teams have more of an influence on the scene and see how important certain organizations make a difference within the E-Sports Industry. We will be utilizing R, Tableau and SQL to analyze data and answer questions for this project.

Business Objective

To showcase the skills I've gained throughout the course, I will be using my knowledge of the programs that were taught to me to the test. Utilizing R, Tableau, and SQL to analyze the 'E-Sports' dataset I am using.

At the end of my project, I will give a presentation explaining my findings and give insight to my audience on the information found from my e-sports dataset.

Background

I have chosen the 'E-Sports' datasets because I am very invested in the industry. This is an industry I have a lot of passion for. As I hope to work in this industry, I hope to gain insight on player and game influence to practice analysis on E-Sports.

Scope

I will be using the software programs that have been taught to complete this project. As the project progresses, additional use of other datasets and more languages may be necessary

Functional requirement

Data Wrangling: Using the dataset on E-Sports, clean up data for analysis. Unusable rows and columns will be dropped. If any null data, drop it. Datatypes should be adjusted to a usable format as needed for analysis.

Data Analysis: I will study datasets to gain a better understanding. Using my further knowledge, I will brainstorm questions and analysis needed for said questions. After brainstorming questions, identify what functions need to be used for predictions and models

Data Visualization: When data analysis is complete, we move on to data visualization. I will use Tableau to visualize our findings and give a better understanding on our data. I will create a PowerPoint presentation to put everything together

Presentation: I will schedule a time to meet with instructor to give a presentation on the findings I did on my data set. I will show preparation and my knowledge on the course material. Once a week I will prepare and meet with instructor to get closer and closer to completion of project

Personnel requirements

Since I am working on my own, I will hold myself accountable and try my best to stay up to date with my assignments. I will meet with my mentor once a week. I will seek help whenever I feel stuck in my project. I will make a trello for myself to see what I need to work on daily/weekly.

Delivery schedule

Week 1: Import data into language of choice (R). Start to data Wrangle data for cleaner view

Week 2: Start coming up with ideas and question to answer for the project. See what it is that I need to do to answer my questions in regards to data analysis.

Week 3: Modeling

Week 4: Review findings and draw conclusions

Week 5: Make a powerpoint slideshow and prepare for presentation with instructor. Rehearse presentation with peers and loved ones.

Week 6: Make final tweeks to presentation and present. Do not add any new data. Stay with the data already used and do not incorporate new findings.

Other requirements

Every program used is free of charge. No other resources will be needed.

Assumptions

Any resource used will be up to date and available.

Limitations

Since I will be working by myself, there will be challenges. Staying up to date and making sure everything is right will be tough without peer opinions. If I ever stumble I will contact mentors but will understand that they will also be busy with other students and other errands.

Risks

Unfortunate events like, power outages and loved ones emergencies may arise. Compute malfunctions and broken software are unpredictable.