# NFL POWER RANKINGS

## Elo Algorithm based website

PREPARED BY: CAMERON EON

# About the Project

I decided to do this project because I love football and seeing where the teams pan out week to week. For me, football is very exhilarating and when watching my favorite team I would love to know where they are in the standings. By creating this algorithm based on Elo ratings I can see that happen from the previous year.

## Vision
## Mission
## Goals

My plan was to finish my website and algorithm on time. This did happen and everything is finally in line and working great. it took a lot of time but in the end, it was well worth it.

# Executive Summary

By setting a strict deadline for each of the individual tasks for my project it will help me move more quickly and effective. With this said by me doing this I project to finish in 3 months or less.

## The Gap We're Filling

Int he next couple of pages will give you details on what I did throughout my process , what I accomplished, and how it went.

# Project's Main Goal

CREATE AND DISTRIBUTE AN INTERACTIVE WEBAPP AND WEBSITE FOR USERS TO SEE THEIR FAVORITE NFL TEAM

**This part of the project plans to help me move towards project execution smoothly.**

- How much time each task would take to complete
- Writing the algorithm
- Working on the website
- Timeline for due dates
- Timeline for certain parts of the project
- Go step by step
- Stick to the plan

# Milestone ONE

## GATHERING ALL THE DATA

In the project I must say this was the easiest part but most crucial. I had to overlook the database I was downloading for the 2020 season to make sure there was no inconsistencies in scores and teams playing that week. Once that was all figured out I needed a base Elo ratings for the preseason and thanks to fivethirtyeight they publicly have their rating for you to use.

# Milestone TWO

MAKING THE ALGORITHM RUN

After I gathered all the data it was time for the algorithm. I decided to use R language after extensive research and it planned out to work the best. Overall I had some issues making it run, but eventually it worked out great. This is what I spent most of my time on to make it perfect. Also, figuring out how to make the WebApp for the main part of my algorithm was difficult, but works great.

# Milestone THREE

MAKE THE WEBSITE FUNCTIONAL

I used WordPress for my website and this ultimately saved me so much time in the process. It took getting used to at first, but once I have figured out how to use it. Figuring out how to integrate my algorithm into WordPress took some time but eventually worked out. Once I did substantial research on how to put the two together it worked out amazing.

**After beta testing, I will launch the official website.**

Once I have implemented everything together I am going to launch my website for everyone to see. There was a lot of testing to be done to make sure everything was running great and there were no bugs in any of it. Now I am proud to say that the website is published under www.nfl-power-rankings.com.

# Milestone FOUR

LAUNCHING THE WEBSITE!