**Executive Summary**

*This section provides an overview of the project. It should briefly touch on the motivation, data question, data to be used, along with any known assumptions and challenges.*

* This capstone project focuses on player evolution from 2020-2024 based on FG percentage, min played, and  
  points scored using field goal percentage/points/assists/minutes. The final product will highlight players who  
  have shown consistent improvement or decline and identify key factors  
  contributing to their performance.
* I have been a long-time NBA fan since I was a kid.
* Data is being used in <https://github.com/NocturneBear/NBA-Data-2010-2024>
* Could be possible data limitations and inconsistencies

**Motivation**

* *I have always been passionate about sports, especially basketball. Beyond just watching games, I have been interested in researching individual and team statistics. My friends and I have always debated teams and individual player comparisons, but I did not have the tools to pull data to prove who won the debate. Through this project I am excited to use the techniques learned here to answer the question I have presented for this capstone project.*

**Data Question**

* This capstone project focuses on player evolution from 2020-2024 based on FG percentage, min played, and  
  points scored using field goal percentage/points/assists/minutes. The final product will highlight players who  
  have shown consistent improvement or decline and identify key factors  
  contributing to their performance

**Minimum Viable Product (MVP)**

*Define your MVP. This should be a description of what your final capstone will look like, including visualizations, how the analysis will be presented, who the intended audience is, etc.*

* *Visualizations: Possibly line charts, bar graphs, scatter plots, any chart visualization that would present the data making it easy to understand.*
* *The data will be cleaned and organized through Python using Jupyter Notebook. Tableau/Power BI will be the program used to help organize and visualize the data for the audience.*
* *Intended audience: Basketball fans, analysts, anyone interested in player performance trends. Hopefully easy to understand for individuals who don’t follow any sport.*

**Schedule (through <date of demo day>)**

1. Get the Data (Already completed)
2. Clean & Explore the Data (02/12/2025)
3. Create Presentation of your Analysis (02/16/2025)

* Should be a presentation, but could include a Jupyter Notebook or dashboard in Excel, Tableau, or PowerBI

1. Internal demos (2/25/2025)
2. Demo Day!! (3/6/2025)

**Data Sources**

<https://github.com/NocturneBear/NBA-Data-2010-2024>

**Known Issues and Challenges**

*Explain any anticipated challenges with your project, and your plan for managing them. Be sure to include:*

* *As of right now I do not foresee any issues, but this will update while working on capstone.*