Devon Foody

1. Project Name

Director of Analytics, Fanduel

2. Project Objective
   a. What problem are you solving?
The problem I am hoping to solve is finding out which NBA players are actually most valuable to their team.

   b. How are you solving this problem?
I am solving this problem by using a number of different metrics such as Plus-minus rating, field goal percentage, field goals attempted, and many more different traceable statistics.

3. Job Description
   a. 1 paragraph explaining the company, title, and job description for the job posting you selected

The director of analytics at Fanduel is responsible for constantly updating the sportsbook application to properly list game odds. The sportsbook does not only have game odds but also player props and anything that you can bet on. The director of analytics is responsible for taking into account consumer insights and matching those findings with statistical sports data.

   b. Briefly explain how the project is related to the job posting
The project is related to this job posting because I am analyzing which NBA players are most effective based on certain statistics. These are statistics that you can also bet on in the fanduel sportsbook application. These finding can also help make the lines for games based on which particular players are playing or matching up against eachother.

4. Data
   a. Source
I used an API called Free NBA API documentation from the user APIguy on the website RapidAPI. Alongside those statistics I also used public spreadsheet NBA data from Kaggle.

   b. Characteristics
This data was relatively easy to work with because the API gave me documentation on how to call it as well as the free online data was helpful. It was relatively difficult to get into my database just based on the sheer size of the data I was pulling

5. Notebooks
   a. Links to the notebook and a description of the notebook's purpose

http://localhost:8888/notebooks/AIMS%20-%20ISBA/sql_analysis.ipynb
This is a link to my sql analysis workbook where I made all my data requests

http://localhost:8888/notebooks/AIMS%20-%20ISBA/Data_Collection.ipynb
This is a link to the data collection workbook I made based on the API

6. Future Improvements
   a. Identify 1-2 improvements if you had more time

A future improvement I would have included if I had more time was to input consumer betting data. This was my original goal from the project however I found it too difficult to find a free dataset that fit my needs, therefore I pivoted into NBA player statistics.