Project proposal

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Section 1. Introduction

Section 2. Data description

This dataset was found on Kaggle (https://www.kaggle.com/justinas/nba-players-data) and was originally collected using the NBA Stats API. The person who created this dataset filled in missing rows of data manually using data from the Basketball Reference. Each observation in the dataset represents a player and their corresponding qualities/ draft stats/ game stats. The variables in the dataset include different aspects pertaining to the player- whether it be information about how/ when they were drafted, physical characteristics (height, weight), and game stats (average number of games, rebounds).

Section 3. Glimpse of data

```
library(tidyverse)
```

```
## -- Attaching packages ---------------------------------------------------------------------------
```

```
## v tibble  3.0.3     v purrr   0.3.4
## v tidyr   1.1.1     v dplyr   1.0.1
## v readr   1.3.1     v forcats 0.5.0
```

```
## -- Conflicts ------------------------------------------------------------------------------------
## x lubridate::as.difftime() masks base::as.difftime()
## x lubridate::date()        masks base::date()
## x dplyr::filter()          masks stats::filter()
## x readr::guess_encoding()  masks rvest::guess_encoding()
## x lubridate::intersect()   masks base::intersect()
## x dplyr::lag()             masks stats::lag()
## x purrr::pluck()           masks rvest::pluck()
## x lubridate::setdiff()     masks base::setdiff()
## x lubridate::union()       masks base::union()
```

```
nba <- read_csv("data/all_seasons.csv")
```

```
## Warning: Missing column names filled in: 'X1' [1]
```

```
## Parsed with column specification:
## cols(
##   .default = col_double(),
##   player_name = col_character(),
##   team_abbreviation = col_character(),
##   college = col_character(),
##   country = col_character(),
##   draft_year = col_character(),
##   draft_round = col_character(),
##   draft_number = col_character(),
```

```
##   season = col_character()
## )
```

```
## See spec(...) for full column specifications.
```

```
glimpse(nba)
```

```
## Rows: 11,145
## Columns: 22
## $ X1                <dbl> 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,...
## $ player_name       <chr> "Dennis Rodman", "Dwayne Schintzius", "Earl Curet...
## $ team_abbreviation <chr> "CHI", "LAC", "TOR", "DAL", "MIA", "HOU", "LAL", ...
## $ age               <dbl> 36, 28, 39, 24, 34, 38, 25, 28, 29, 28, 27, 27, 2...
## $ player_height     <dbl> 198.12, 215.90, 205.74, 203.20, 205.74, 200.66, 1...
## $ player_weight     <dbl> 99.79024, 117.93392, 95.25432, 100.69742, 108.862...
## $ college           <chr> "Southeastern Oklahoma State", "Florida", "Detroi...
## $ country           <chr> "USA", "USA", "USA", "USA", "USA", "USA", "USA", ...
## $ draft_year        <chr> "1986", "1990", "1979", "1995", "1985", "1981", "...
## $ draft_round       <chr> "2", "1", "3", "1", "1", "2", "1", "1", "Undrafte...
## $ draft_number      <chr> "27", "24", "58", "9", "10", "29", "10", "27", "U...
## $ gp                <dbl> 55, 15, 9, 64, 27, 52, 80, 77, 71, 82, 9, 1, 13, ...
## $ pts               <dbl> 5.7, 2.3, 0.8, 3.7, 2.4, 8.2, 17.2, 14.9, 5.7, 6....
## $ reb               <dbl> 16.1, 1.5, 1.0, 2.3, 2.4, 2.7, 4.1, 8.0, 1.6, 1.5...
## $ ast               <dbl> 3.1, 0.3, 0.4, 0.6, 0.2, 1.0, 3.4, 1.6, 1.3, 3.0,...
## $ net_rating        <dbl> 16.1, 12.3, -2.1, -8.7, -11.2, 4.1, 4.1, 3.3, -0....
## $ oreb_pct          <dbl> 0.186, 0.078, 0.105, 0.060, 0.109, 0.034, 0.035, ...
## $ dreb_pct          <dbl> 0.323, 0.151, 0.102, 0.149, 0.179, 0.126, 0.091, ...
## $ usg_pct           <dbl> 0.100, 0.175, 0.103, 0.167, 0.127, 0.220, 0.209, ...
## $ ts_pct            <dbl> 0.479, 0.430, 0.376, 0.399, 0.611, 0.541, 0.559, ...
## $ ast_pct           <dbl> 0.113, 0.048, 0.148, 0.077, 0.040, 0.102, 0.149, ...
## $ season            <chr> "1996-97", "1996-97", "1996-97", "1996-97", "1996...
```