Dataset

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1. <https://github.com/dteuscher1/Project426>
2. Image attached as “basketball.jpg”
3. Importance of Hustle Stats in the NBA
4. Information about the dataset

* **X**: Row identifier
* **GAME\_ID**: ID for the game used by the NBA API
* **TEAM\_NAME**: Name of the team
* **PTS**: Number of points scored in the game
* **WINNER**: Indicator variable that indicates if the team won the game
* **DEFLECTIONS\_RATIO**: Proportion of total deflections for the team in the game
* **DEFLECTIONS\_DIFF**: Difference of deflections between the two teams (home team - away team)
* **CONTEST\_RATE**: Proportion of shots contested by the team
* **CONTEST\_RATE\_2**: Proportion of 2 point shots contested by the team
* **CONTEST\_RATE\_3**: Proportion of 3 point shots contested by the team
* **CHARGES\_RATIO**: Proportion of total charges in a game for the team
* **CHARGES\_DIFF**: Difference of charges between the two teams (home team - away team)
* **SCREEN\_AST\_RATIO**: Proportion of total screen assists in a game for the team
* **SCREEN\_AST\_DIFF**: Difference of screen assists between the two teams (home team - away team)
* **SCREEN\_AST\_PTS\_RATIO**: Proportion of total points off of screen assists in a game for the team
* **SCREEN\_AST\_PTS\_DIFF**: Difference of points scored off of screen assists between the two teams (home team - away team)
* **LOOSE\_RATIO**: Proportion of total loose balls recovered in a game for the team
* **LOOSE\_DIFFERENCE**: Difference of loose balls recovered between the two teams (home team - away team)
* **OFF\_BOXOUT\_RATIO**: Proportion of total boxouts on offense in a game for the team
* **OFF\_BOXOUT\_DIFF**: Difference of offensive boxouts between the two teams (home team - away team)
* **DEf\_BOXOUT\_RATIO**: Proportion of total boxouts on defense in a game for the team
* **OFF\_BOXOUT\_DIFF**: Difference of defensive boxouts between the two teams (home team - away team)
* **BOXOUT\_TM\_RBS\_RATIO**: Proportion of a players’ team getting the rebound when boxing out
* **BOXOUT\_TM\_RBS\_DIFFERENCE**: - **OFF\_BOXOUT\_RATIO**: Proportion of total boxouts on offense in a game for the team
* **OFF\_BOXOUT\_DIFF**: Difference of rebounds for the team of the player boxing out between the two teams (home team - away team)

|  | Mean | Standard Deviation |
| --- | --- | --- |
| PTS | 111.6212 | 12.5904 |
| DEFLECTIONS\_RATIO | 0.4996 | 0.1064 |
| DEFLECTIONS\_DIFF | 0.0000 | 5.5525 |
| CONTEST\_RATE | 0.6568 | 0.1093 |
| CONTEST\_RATE\_2 | 0.6360 | 0.1188 |
| CONTEST\_RATE\_3 | 0.6904 | 0.1411 |
| CHARGES\_RATIO | 0.3126 | 0.4201 |
| CHARGES\_DIFF | 0.0000 | 1.0379 |
| SCREEN\_AST\_RATIO | 0.4983 | 0.1473 |
| SCREEN\_AST\_DIFF | 0.0000 | 5.1506 |
| SCREEN\_AST\_PTS\_RATIO | 0.4983 | 0.1493 |
| SCREEN\_AST\_PTS\_DIFF | 0.0000 | 12.0893 |
| LOOSE\_RATIO | 0.4994 | 0.1351 |
| LOOSE\_DIFFERENCE | 0.0000 | 3.4971 |
| OFF\_BOXOUT\_RATIO | 0.4797 | 0.3107 |
| OFF\_BOXOUT\_DIFF | 0.0000 | 2.6439 |
| DEF\_BOXOUT\_RATIO | 0.4983 | 0.1441 |
| DEF\_BOXOUT\_DIFF | 0.0000 | 7.6405 |
| BOXOUT\_TM\_RBS\_RATIO | 0.4983 | 0.1412 |
| BOXOUT\_TM\_RBS\_DIFF | 0.0000 | 5.2726 |

| Winner | Count |
| --- | --- |
| 0 | 2310 |
| 1 | 2310 |

The target variable is **WINNER** (categorical/binary):