

1. Install basketball reference web scraper

```
In [1]: !pip install basketball-reference-web-scraper
```

```
Requirement already satisfied: basketball-reference-web-scraper in /opt/anaconda3/lib/python3.9/site-packages (4.13.0)  
Requirement already satisfied: lxml==4.5.1 in /opt/anaconda3/lib/python3.9/site-packages (from basketball-reference-web-scraper) (4.5.1)  
Requirement already satisfied: certifi==2018.10.15 in /opt/anaconda3/lib/python3.9/site-packages (from basketball-reference-web-scraper) (2018.10.15)  
Requirement already satisfied: chardet==3.0.4 in /opt/anaconda3/lib/python3.9/site-packages (from basketball-reference-web-scraper) (3.0.4)  
Requirement already satisfied: requests==2.20.0 in /opt/anaconda3/lib/python3.9/site-packages (from basketball-reference-web-scraper) (2.20.0)  
Requirement already satisfied: idna==2.7 in /opt/anaconda3/lib/python3.9/site-packages (from basketball-reference-web-scraper) (2.7)  
Requirement already satisfied: urllib3==1.24.3 in /opt/anaconda3/lib/python3.9/site-packages (from basketball-reference-web-scraper) (1.24.3)  
Requirement already satisfied: pytz==2018.6 in /opt/anaconda3/lib/python3.9/site-packages (from basketball-reference-web-scraper) (2018.6)
```

2. Import needed data from season

```
In [2]: from basketball_reference_web_scraper import client  
data_years = []  
years = [2024]  
for year in years:  
    data = client.players_advanced_season_totals(year)  
    data_years.append(data)  
names = []  
for player in data:  
    names.append(player['name'])  
slugs = []  
for player in data:  
    slugs.append(player['slug'])  
NBAData = client.players_season_totals(season_end_year=2024)
```

4. Import game log for player

```
In [13]: PlayerName = 'Luka Doncic'
```

Hit Rate %s for 3 Pointers Made


```

In [14]: r PlayerDict in NBAData:
         if PlayerDict.get('name')== PlayerName:
             slug = (PlayerDict['slug'])

redata = client.regular_season_player_box_scores(
    player_identifier = slug,
    season_end_year = 2024

total_games = len(moredata)
st_5_games = len(moredata[-5:])
st_10_games = len(moredata[-10:])

e_3pm_count = sum(game['made_three_point_field_goals'] >= 1 for game in m
e_3pm_last5_count = sum(game['made_three_point_field_goals'] >= 1 for gam

e_3pm_percentage = (one_3pm_count / total_games) * 100
e_3pm_last5_percentage = (one_3pm_last5_count / last_5_games) * 100

e_3pm_last10_count = sum(game['made_three_point_field_goals'] >= 1 for ga
e_3pm_last10_percentage = (one_3pm_last10_count / last_10_games) * 100

o_3pm_count = sum(game['made_three_point_field_goals'] >= 2 for game in m
o_3pm_percentage = (two_3pm_count / total_games) * 100

o_3pm_last5_count = sum(game['made_three_point_field_goals'] >= 2 for gam
o_3pm_last5_percentage = (two_3pm_last5_count / last_5_games) * 100

o_3pm_last10_count = sum(game['made_three_point_field_goals'] >= 2 for ga
o_3pm_last10_percentage = (two_3pm_last10_count / last_10_games) * 100

ree_3pm_count = sum(game['made_three_point_field_goals'] >= 3 for game in
ree_3pm_percentage = (three_3pm_count / total_games) * 100

ree_3pm_last5_count = sum(game['made_three_point_field_goals'] >= 3 for g
ree_3pm_last5_percentage = (three_3pm_last5_count / last_5_games) * 100

ree_3pm_last10_count = sum(game['made_three_point_field_goals'] >= 3 for
ree_3pm_last10_percentage = (three_3pm_last10_count / last_10_games) * 10

ur_3pm_count = sum(game['made_three_point_field_goals'] >= 4 for game in
ur_3pm_percentage = (four_3pm_count / total_games) * 100

ur_3pm_last5_count = sum(game['made_three_point_field_goals'] >= 4 for ga
ur_3pm_last5_percentage = (four_3pm_last5_count / last_5_games) * 100

ur_3pm_last10_count = sum(game['made_three_point_field_goals'] >= 4 for g
ur_3pm_last10_percentage = (four_3pm_last10_count / last_10_games) * 100

ve_3pm_count = sum(game['made_three_point_field_goals'] >= 5 for game in
ve_3pm_percentage = (five_3pm_count / total_games) * 100

ve_3pm_last5_count = sum(game['made_three_point_field_goals'] >= 5 for ga

```

```
ve_3pm_last5_percentage = (five_3pm_last5_count / last_5_games) * 100

ve_3pm_last10_count = sum(game['made_three_point_field_goals'] >= 5 for g
ve_3pm_last10_percentage = (five_3pm_last10_count / last_10_games) * 100

int('3 Point Hit Rate Percentage')
int()
int("Player: ", PlayerName)
int()
int()
int("3 Pointers Made:")
int()
int()
int("1+ 3PM Hit Rate (Season): ", one_3pm_percentage, "%")
int()
int("1+ 3PM Hit Rate (Last 5 Games): ", one_3pm_last5_percentage, "%")
int()
int("1+ 3PM Hit Rate (Last 10 Games): ", one_3pm_last10_percentage, "%")
int()
int()
int("2+ 3PM Hit Rate (Season): ", two_3pm_percentage, "%")
int()
int("2+ 3PM Hit Rate (Last 5 Games): ", two_3pm_last5_percentage, "%")
int()
int("2+ 3PM Hit Rate (Last 10 Games): ", two_3pm_last10_percentage, "%")
int()
int()
int("3+ 3PM Hit Rate (Season): ", three_3pm_percentage, "%")
int()
int("3+ 3PM Hit Rate (Last 5 Games): ", three_3pm_last5_percentage, "%")
int()
int("3+ 3PM Hit Rate (Last 10 Games): ", three_3pm_last10_percentage, "%")
int()
int()
int("4+ 3PM Hit Rate (Season): ", four_3pm_percentage, "%")
int()
int("4+ 3PM Hit Rate (Last 5 Games): ", four_3pm_last5_percentage, "%")
int()
int("4+ 3PM Hit Rate (Last 10 Games): ", four_3pm_last10_percentage, "%")
int()
int()
int("5+ 3PM Hit Rate (Season): ", five_3pm_percentage, "%")
int()
int("5+ 3PM Hit Rate (Last 5 Games): ", five_3pm_last5_percentage, "%")
int()
int("5+ 3PM Hit Rate (Last 10 Games): ", five_3pm_last10_percentage, "%")
int()
```

3 Point Hit Rate Percentage

Player: Luka Doncic

3 Pointers Made:

1+ 3PM Hit Rate (Season): 93.93939393939394 %

1+ 3PM Hit Rate (Last 5 Games): 100.0 %

1+ 3PM Hit Rate (Last 10 Games): 100.0 %

2+ 3PM Hit Rate (Season): 81.81818181818183 %

2+ 3PM Hit Rate (Last 5 Games): 100.0 %

2+ 3PM Hit Rate (Last 10 Games): 90.0 %

3+ 3PM Hit Rate (Season): 51.515151515151516 %

3+ 3PM Hit Rate (Last 5 Games): 40.0 %

3+ 3PM Hit Rate (Last 10 Games): 50.0 %

4+ 3PM Hit Rate (Season): 30.303030303030305 %

4+ 3PM Hit Rate (Last 5 Games): 40.0 %

4+ 3PM Hit Rate (Last 10 Games): 30.0 %

5+ 3PM Hit Rate (Season): 18.181818181818183 %

5+ 3PM Hit Rate (Last 5 Games): 20.0 %

5+ 3PM Hit Rate (Last 10 Games): 20.0 %

Hit Rate %s for Points


```

In [17]: fifteen_pts_count = sum(game['points_scored'] >= 15 for game in moredata)
fifteen_pts_last5_count = sum(game['points_scored'] >= 15 for game in mo
fifteen_pts_percentage = (fifteen_pts_count / total_games) * 100
fifteen_pts_last5_percentage = (fifteen_pts_last5_count / last_5_games) *
fifteen_pts_last10_count = sum(game['points_scored'] >= 15 for game in mo
fifteen_pts_last10_percentage = (fifteen_pts_last10_count / last_10_games)

twenty_pts_count = sum(game['points_scored'] >= 20 for game in moredata)
twenty_pts_last5_count = sum(game['points_scored'] >= 20 for game in more
twenty_pts_percentage = (twenty_pts_count / total_games) * 100
twenty_pts_last5_percentage = (twenty_pts_last5_count / last_5_games) *
twenty_pts_last10_count = sum(game['points_scored'] >= 20 for game in mo
twenty_pts_last10_percentage = (twenty_pts_last10_count / last_10_games)

twofive_pts_count = sum(game['points_scored'] >= 25 for game in moredata)
twofive_pts_last5_count = sum(game['points_scored'] >= 25 for game in mo
twofive_pts_percentage = (twofive_pts_count / total_games) * 100
twofive_pts_last5_percentage = (twofive_pts_last5_count / last_5_games) *
twofive_pts_last10_count = sum(game['points_scored'] >= 25 for game in mo
twofive_pts_last10_percentage = (twofive_pts_last10_count / last_10_games)

thirty_pts_count = sum(game['points_scored'] >= 30 for game in moredata)
thirty_pts_last5_count = sum(game['points_scored'] >= 30 for game in more
thirty_pts_percentage = (thirty_pts_count / total_games) * 100
thirty_pts_last5_percentage = (thirty_pts_last5_count / last_5_games) *
thirty_pts_last10_count = sum(game['points_scored'] >= 30 for game in mo
thirty_pts_last10_percentage = (thirty_pts_last10_count / last_10_games)

print('Points Hit Rate Percentage')
print()
print("Player: ", playerName)
print()
print()
print("Points Milestones:")
print()
print()
print("15+ Points Hit Rate (Season): ",fifteen_pts_percentage)
print()
print("15+ Points Hit Rate (Last 5 Games): ",fifteen_pts_last5_percentag
print()
print("15+ Points Hit Rate (Last 10 Games): ",fifteen_pts_last10_percenta
print()
print()
print("20+ Points Hit Rate (Season): ",twenty_pts_percentage)
print()
print("20+ Points Hit Rate (Last 5 Games): ",twenty_pts_last5_percentag
print()
print("20+ Points Hit Rate (Last 10 Games): ",twenty_pts_last10_percenta
print()
print()
print("25+ Points Hit Rate (Season): ",twofive_pts_percentage)
print()
print("25+ Points Hit Rate (Last 5 Games): ",twofive_pts_last5_percentag
print()
print("25+ Points Hit Rate (Last 10 Games): ",twofive_pts_last10_percenta
print()
print()

```

```
print("30+ Points Hit Rate (Season): ",thirty_pts_percentage)
print()
print("30+ Points Hit Rate (Last 5 Games): ",thirty_pts_last5_percentage)
print()
print("30+ Points Hit Rate (Last 10 Games): ",thirty_pts_last10_percentage)
print()
print()
```

Points Hit Rate Percentage

Player: Damian Lillard

Points Milestones:

15+ Points Hit Rate (Season): 88.0

15+ Points Hit Rate (Last 5 Games): 80.0

15+ Points Hit Rate (Last 10 Games): 90.0

20+ Points Hit Rate (Season): 70.0

20+ Points Hit Rate (Last 5 Games): 40.0

20+ Points Hit Rate (Last 10 Games): 60.0

25+ Points Hit Rate (Season): 54.0

25+ Points Hit Rate (Last 5 Games): 40.0

25+ Points Hit Rate (Last 10 Games): 50.0

30+ Points Hit Rate (Season): 28.000000000000004

30+ Points Hit Rate (Last 5 Games): 20.0

30+ Points Hit Rate (Last 10 Games): 10.0

Rebound Hit Rate %s


```
In [18]: def rebounds_count(min_rebounds):  
         return sum((game['offensive_rebounds'] + game['defensive_rebounds']))  
  
         def rebounds_last5_count(min_rebounds):  
             return sum((game['offensive_rebounds'] + game['defensive_rebounds']))  
  
         def rebounds_last10_count(min_rebounds):  
             return sum((game['offensive_rebounds'] + game['defensive_rebounds']))
```

```
In [21]: four_rebounds_percentage = (rebounds_count(4) / total_games) * 100
four_rebounds_last5_percentage = (rebounds_last5_count(4) / last_5_games)
four_rebounds_last10_percentage = (rebounds_last10_count(4) / last_10_games)

six_rebounds_percentage = (rebounds_count(6) / total_games) * 100
six_rebounds_last5_percentage = (rebounds_last5_count(6) / last_5_games)
six_rebounds_last10_percentage = (rebounds_last10_count(6) / last_10_games)

eight_rebounds_percentage = (rebounds_count(8) / total_games) * 100
eight_rebounds_last5_percentage = (rebounds_last5_count(8) / last_5_games)
eight_rebounds_last10_percentage = (rebounds_last10_count(8) / last_10_games)

ten_rebounds_percentage = (rebounds_count(10) / total_games) * 100
ten_rebounds_last5_percentage = (rebounds_last5_count(10) / last_5_games)
ten_rebounds_last10_percentage = (rebounds_last10_count(10) / last_10_games)

print('Rebounds: ')
print()
print()
print("4+: ", four_rebounds_percentage)
print()
print('Last 5: ', four_rebounds_last5_percentage)
print()
print('Last 10: ', four_rebounds_last10_percentage)
print()
print()
print("6+: ", six_rebounds_percentage)
print()
print('Last 5: ', six_rebounds_last5_percentage)
print()
print('Last 10: ', six_rebounds_last10_percentage)
print()
print()
print("8+: ", eight_rebounds_percentage)
print()
print('Last 5: ', eight_rebounds_last5_percentage)
print()
print('Last 10: ', eight_rebounds_last10_percentage)
print()
print()
print("10+: ", ten_rebounds_percentage)
print()
print('Last 5: ', ten_rebounds_last5_percentage)
print()
print('Last 10: ', ten_rebounds_last10_percentage)
print()
print()
```

Rebounds:**4+: 72.09302325581395****Last 5: 80.0****Last 10: 310.0****6+: 44.18604651162791****Last 5: 20.0****Last 10: 190.0****8+: 18.6046511627907****Last 5: 20.0****Last 10: 80.0****10+: 6.976744186046512****Last 5: 0.0****Last 10: 30.0**

In []: