Descriptive Analysis Summary

----------------------------

- Total Players: 467

- Average Salary: $8,416,598.75

- Average Age: 25.82 years

- Position Distribution: SG (24.63%), SF (19.49%), C (19.49%), PF (18.42%), PG (16.49%)

- Average Games Played: 48.23

- Average Minutes Played per Game: 19.87

- Average Points per Game: 9.13

Top 5 Salaries:

1. Stephen Curry: $48,070,014

2. John Wall: $47,345,760

3. Russell Westbrook: $47,080,179

4. LeBron James: $44,474,988

5. Kevin Durant: $44,119,845

Top 5 Players by Win Shares (WS):

1. Domantas Sabonis: 12.6

2. Jimmy Butler: 12.3

3. Joel Embiid: 12.3

4. Shai Gilgeous-Alexander: 11.4

5. Jayson Tatum: 10.5

Top 5 Players by Value Over Replacement Player (VORP):

1. Joel Embiid: 6.4

2. Jimmy Butler: 5.8

3. Shai Gilgeous-Alexander: 5.6

4. Giannis Antetokounmpo: 5.4

5. Domantas Sabonis: 5.4

Diagnostic Analysis Summary

---------------------------

- Correlation between Salary and Win Shares (WS): 0.625

- Correlation between Salary and Value Over Replacement Player (VORP): 0.680

- Correlation between Salary and Age: 0.416

Predictive Analysis Summary

----------------------------

- Predictive model (Gradient Boosting Regressor) to forecast NBA player's salary based on Age, WS, VORP, and Position.

- Root Mean Squared Error (RMSE) of the model: ~$6,370,590.72