

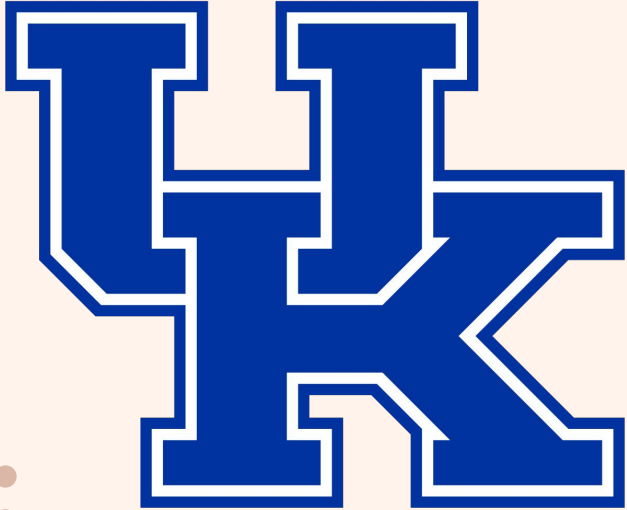


M4AI NCAA Basketball Presentation



By Adeev, Oren, Omar, Kai, and Akshay





1

Team that performed the best:
Kentucky - 38



Team that performs the best:

TEAM Kentucky

W 38



Team that performed the worst:

San Jose St. - 0



Team with the fewest games won:

TEAM San Jose St.

W 0

Top 5 teams based on average games won:

Gonzaga



31.7

1

Villanova



30.0

2

Duke



29.3

3

Kansas



29.0

4

Kentucky



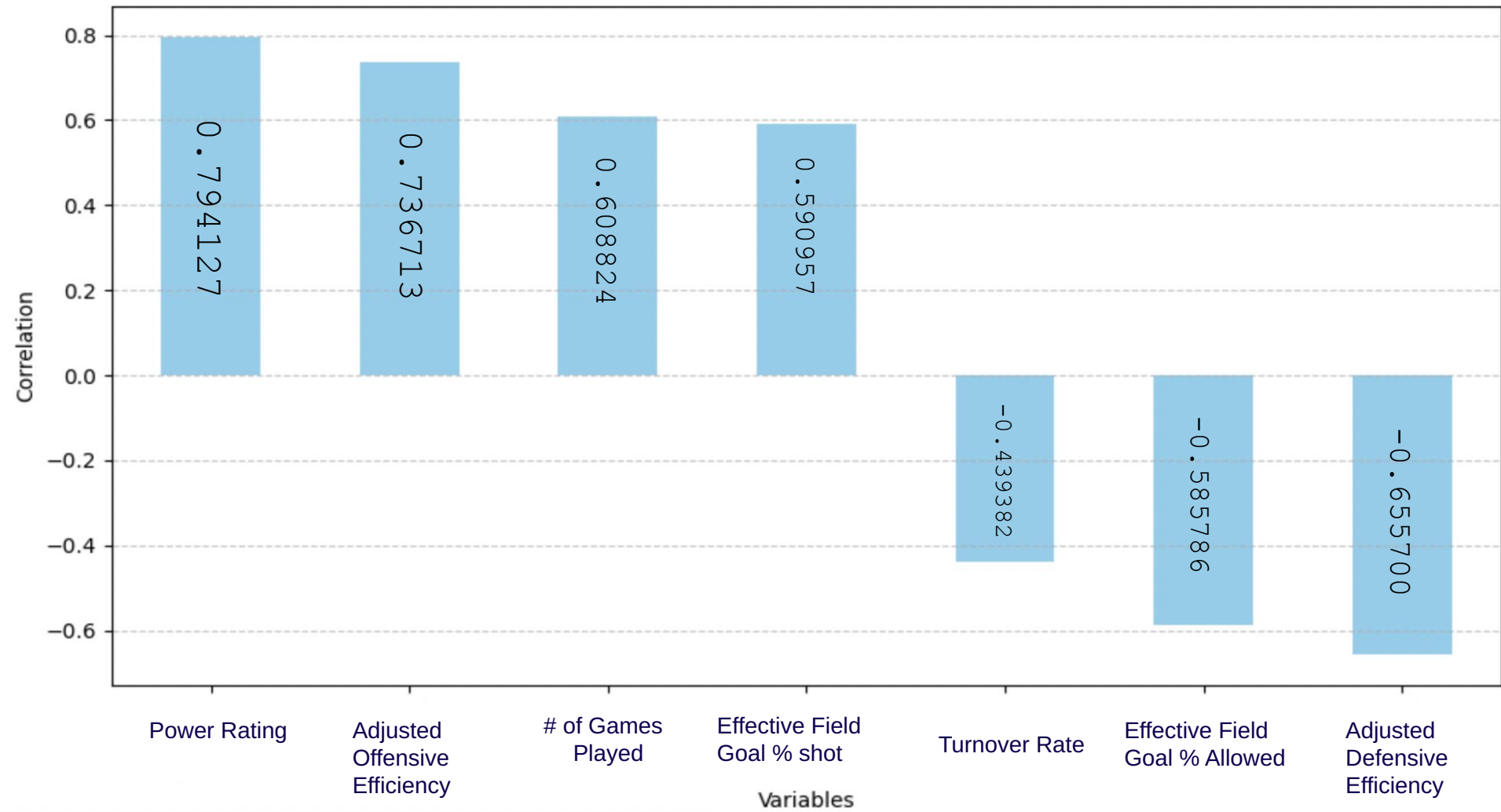
29.0

5

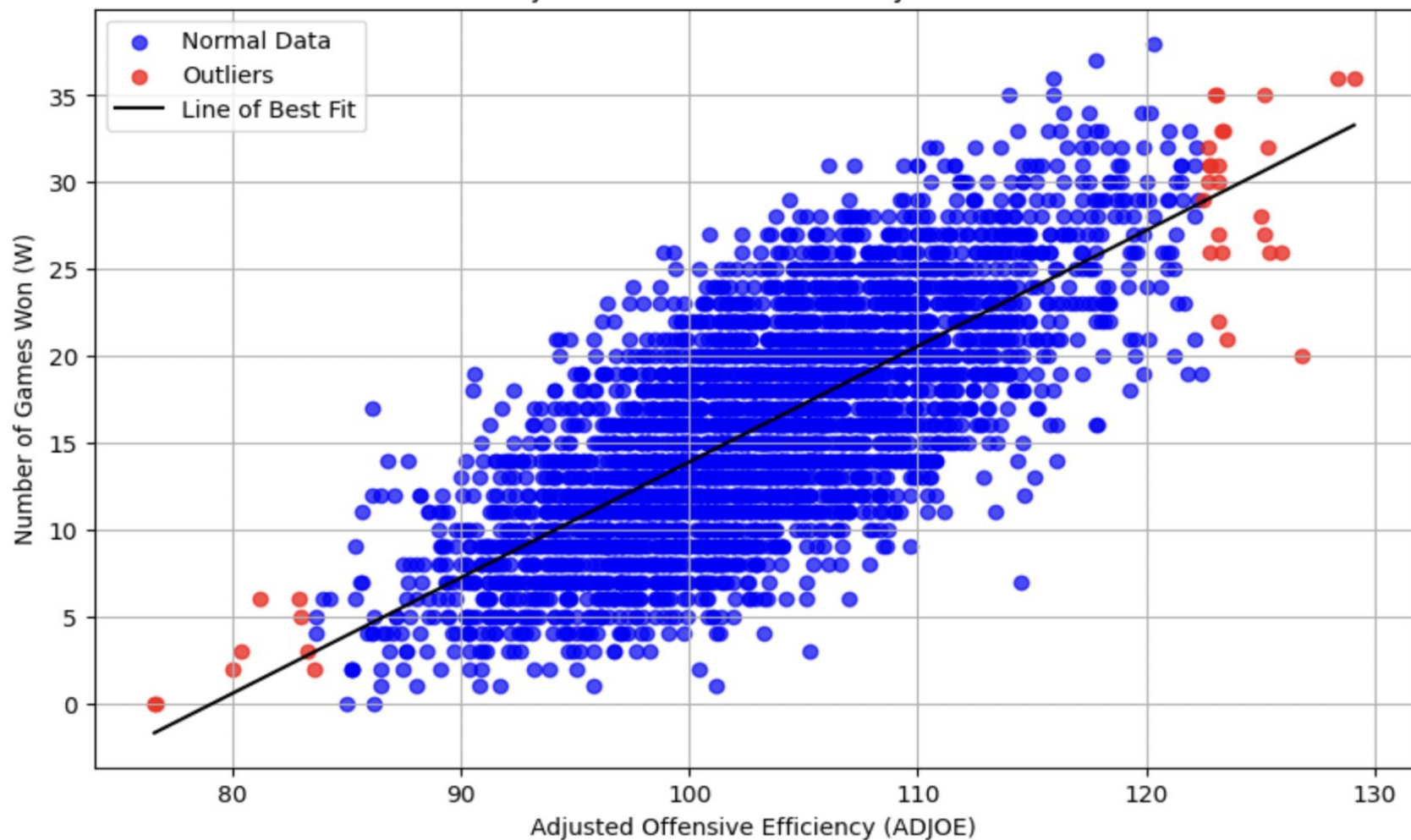


Wait?! Wasn't Kentucky
the best team? Why
isn't it the best team
on avg. games won?

Correlation of Variables with Games Won



Correlation between Adjusted Offensive Efficiency and Number of Games Won

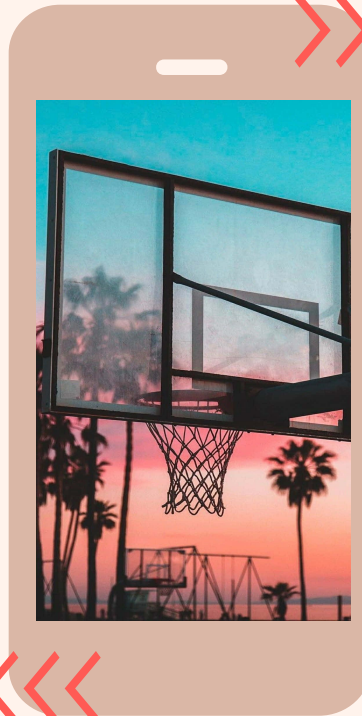


Mean Squared Error

20.40690158605382

Total Squared Error

14386.865618167943



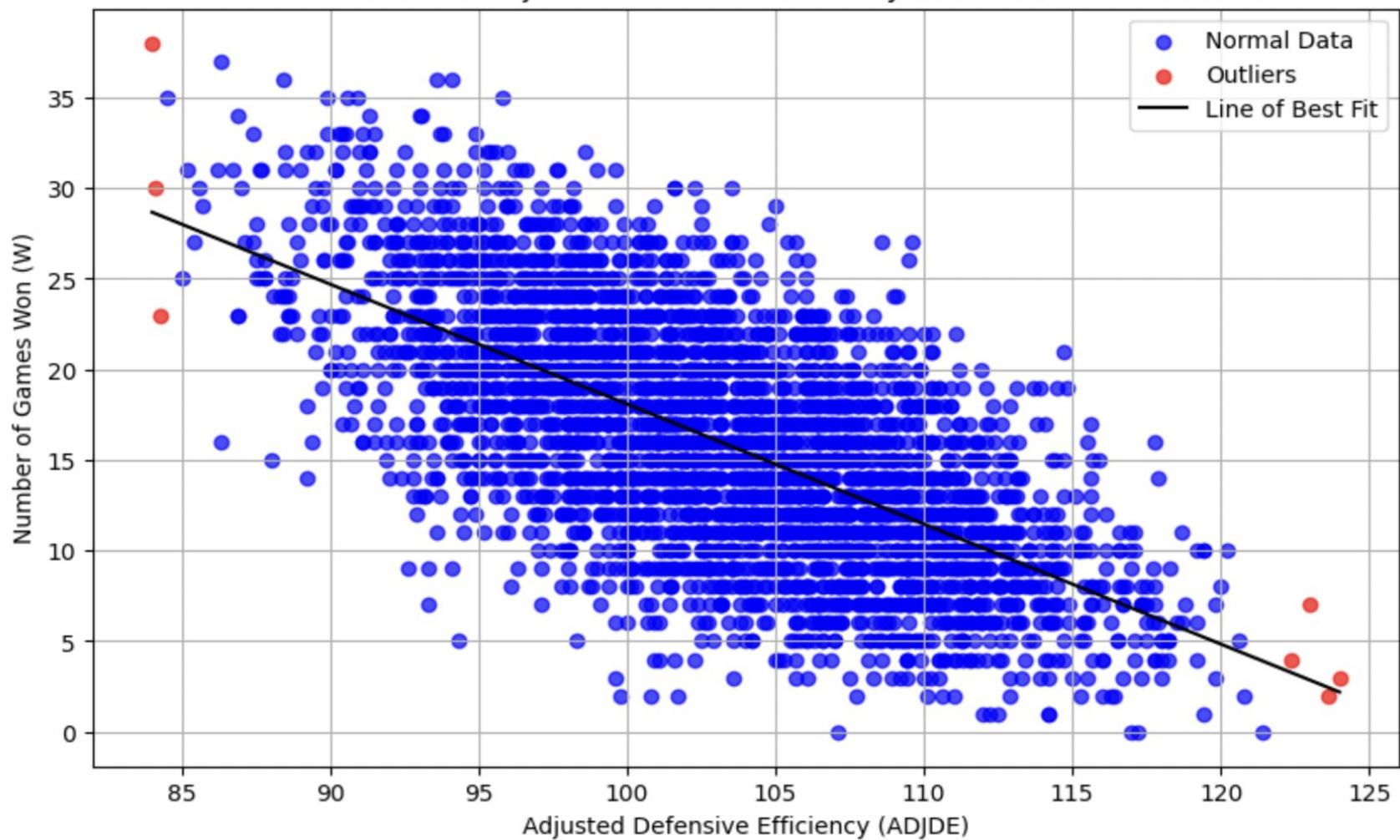
Intercept (β_0):

-53.17177025109583

Slope coefficient (β_1):

0.6704861604076251

Correlation between Adjusted Defensive Efficiency and Number of Games Won



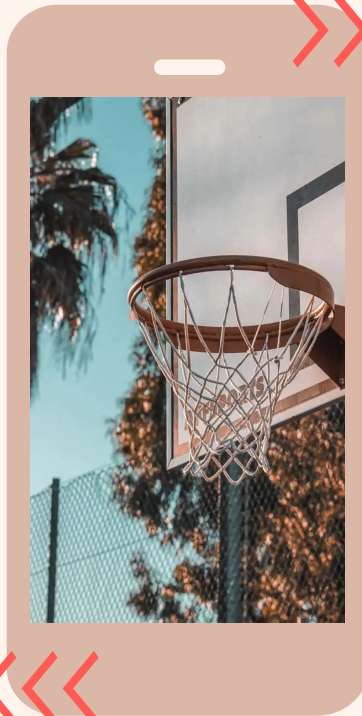


Mean Squared Error

23.339117591280637

Total Squared Error

16454.07790185285

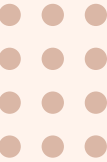


Intercept (β_0):

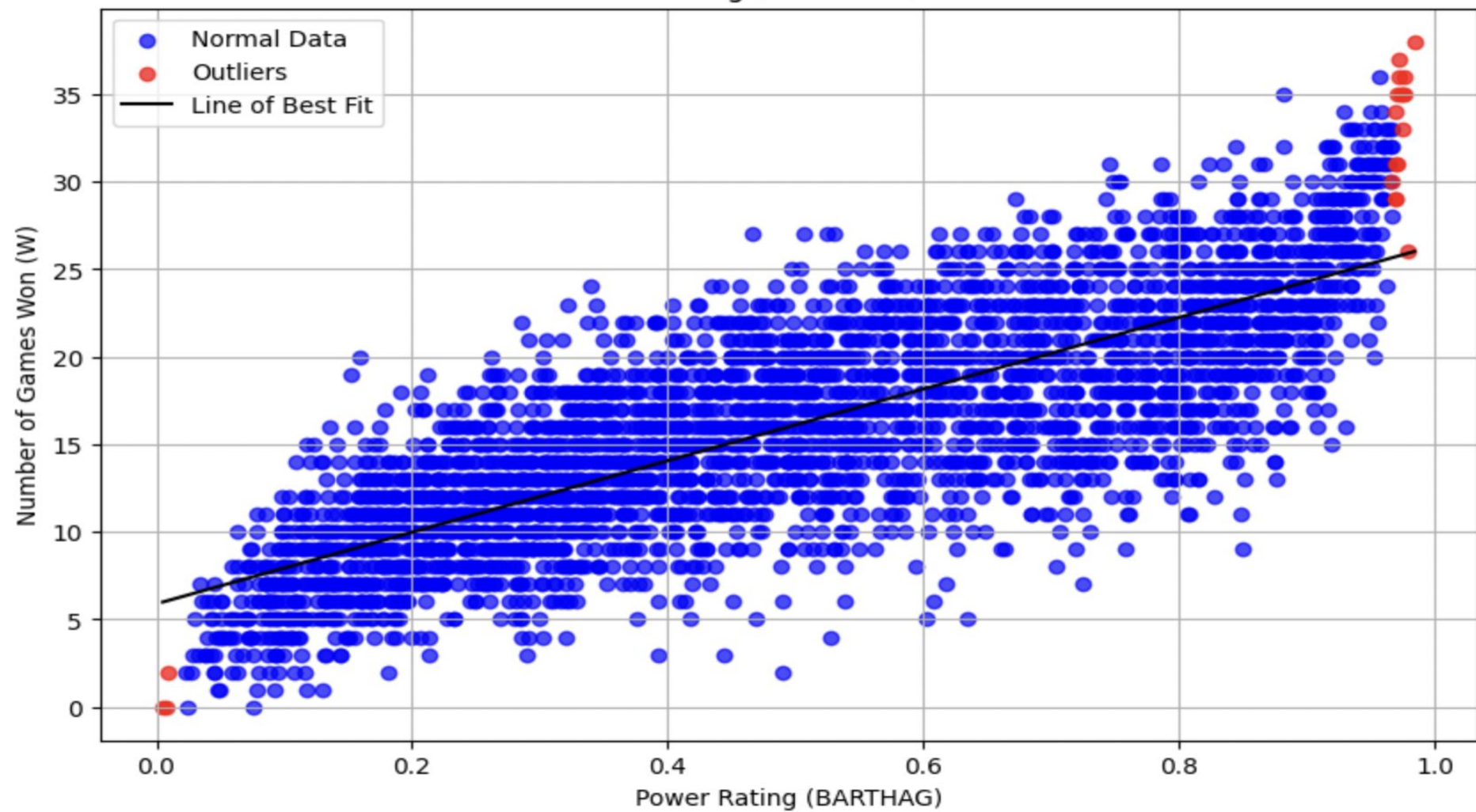
84.25914524979757

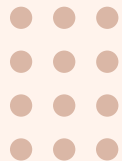
Slope coefficient (β_1):

-0.6618453599501695



Correlation between Power Rating (BARTHAG) and Number of Games Won





Mean Squared Error

15.574406585380146

Total Squared Error

10979.956642693003



Intercept (β_0):

5.890730794704085

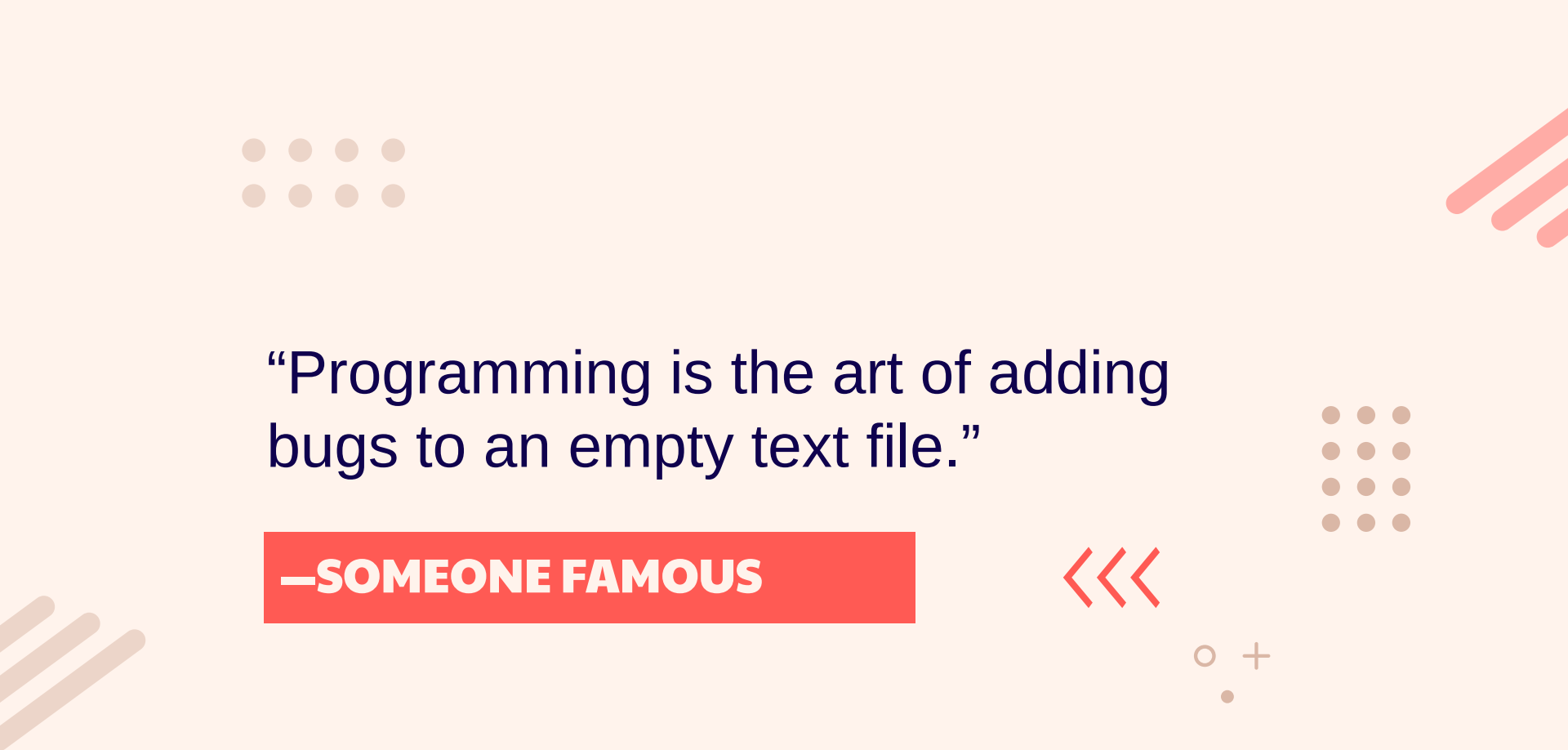
Slope coefficient (β_1):

20.442372889099154



Goals for the final project

- Create an AI application with GUI that predicts the outcome of college basketball games based on ~3,600 statistics.
 - Could suggest which team to bet on and how much to bet
- AI would incorporate locational biases (home/away court) to make a better and more realistic prediction.
- AI would also use standard deviation of a team's performance metrics over a season instead of using average games won as a measure of consistency.



“Programming is the art of adding
bugs to an empty text file.”

—SOMEONE FAMOUS





THANK YOU