



NBA's 3 Pointers

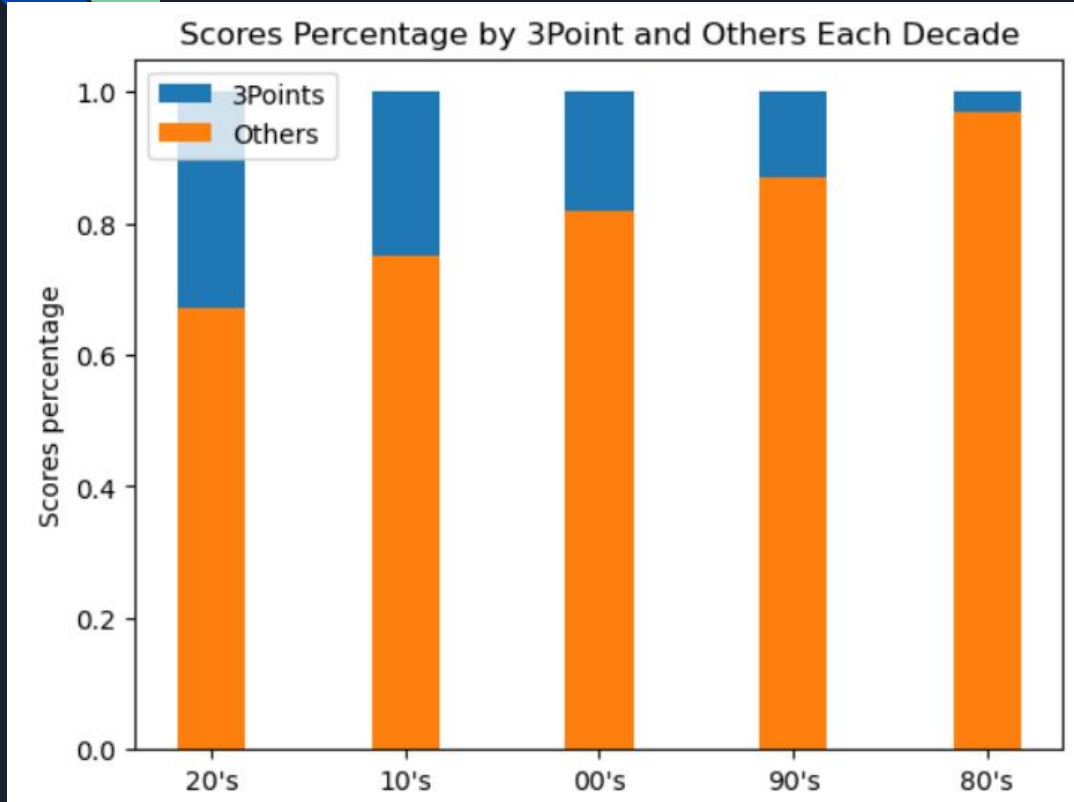
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Christine Yang, Tran Dang

The 3 Point Shot

- Stephen Curry
- Aim of Presentation
- Target Audience
- Value Proposition



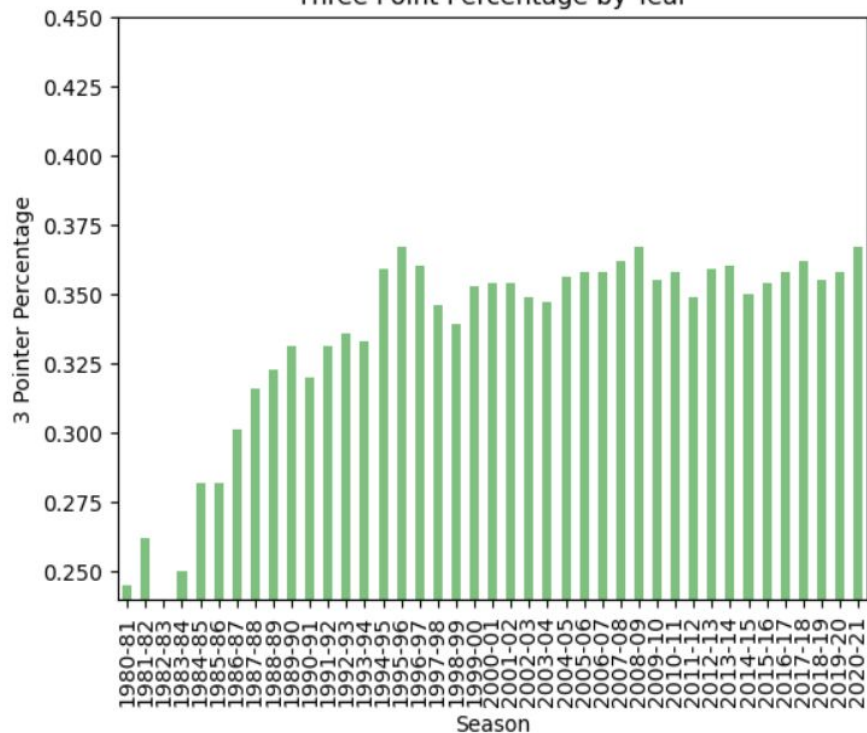
Statistical History of the 3 Pointer



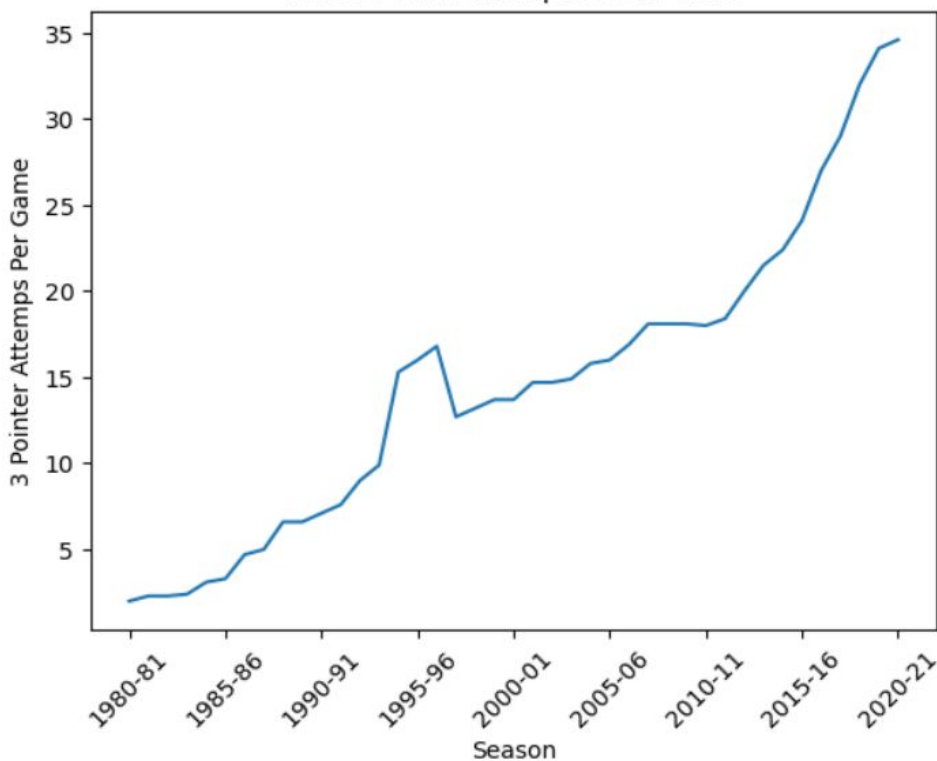
- Adopted in the 1979-1980 Season
- Rarely used in the 80's
- Gradual Increase
- Now accounts for over 30% Scored

The Source of Increased Scoring

Three Point Percentage by Year

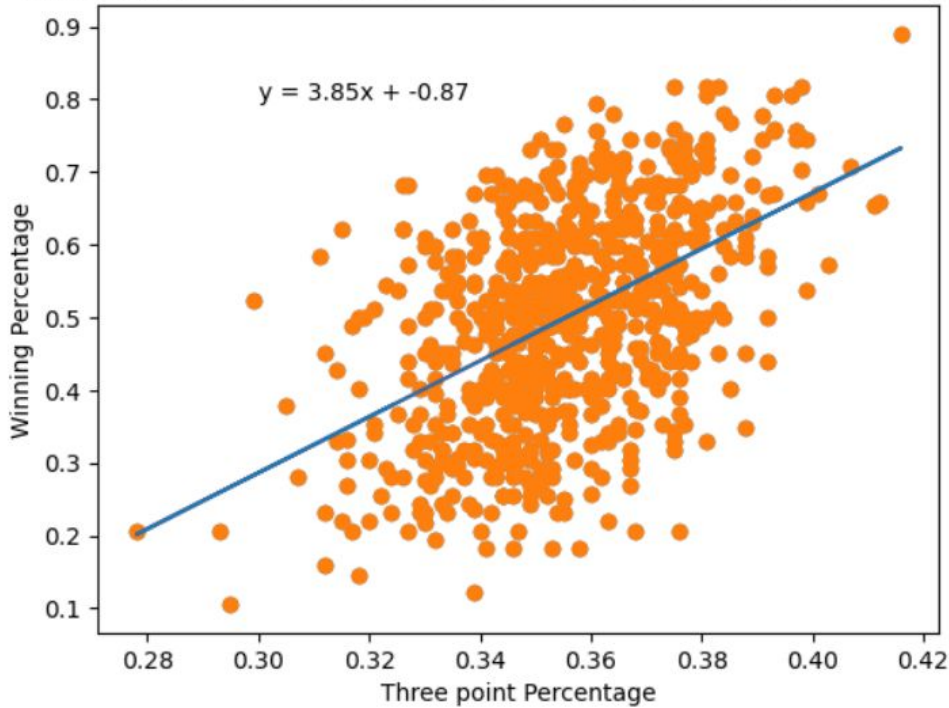


Three Point Attempts Over Time



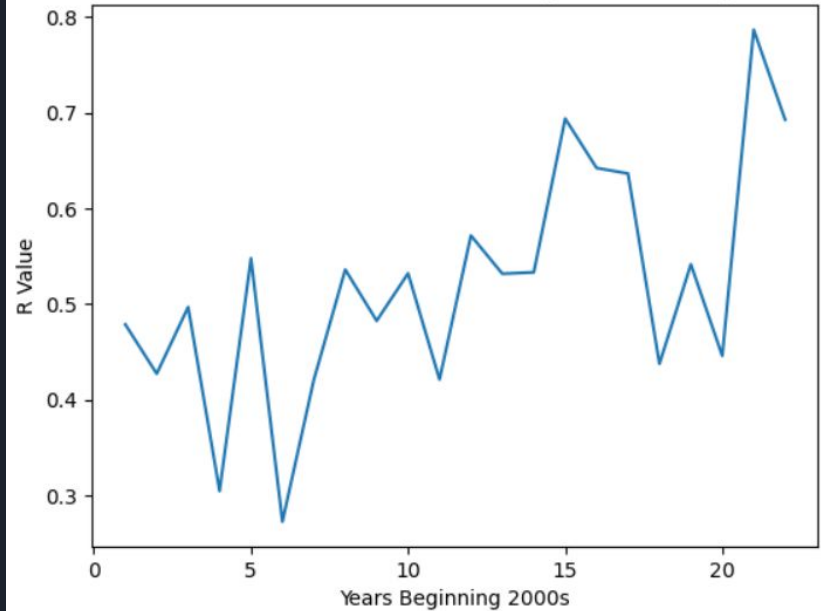
The Effect of 3 Point Shots on Win Percentage

Linear Regression on Three Point Percentage and Winning Percentage



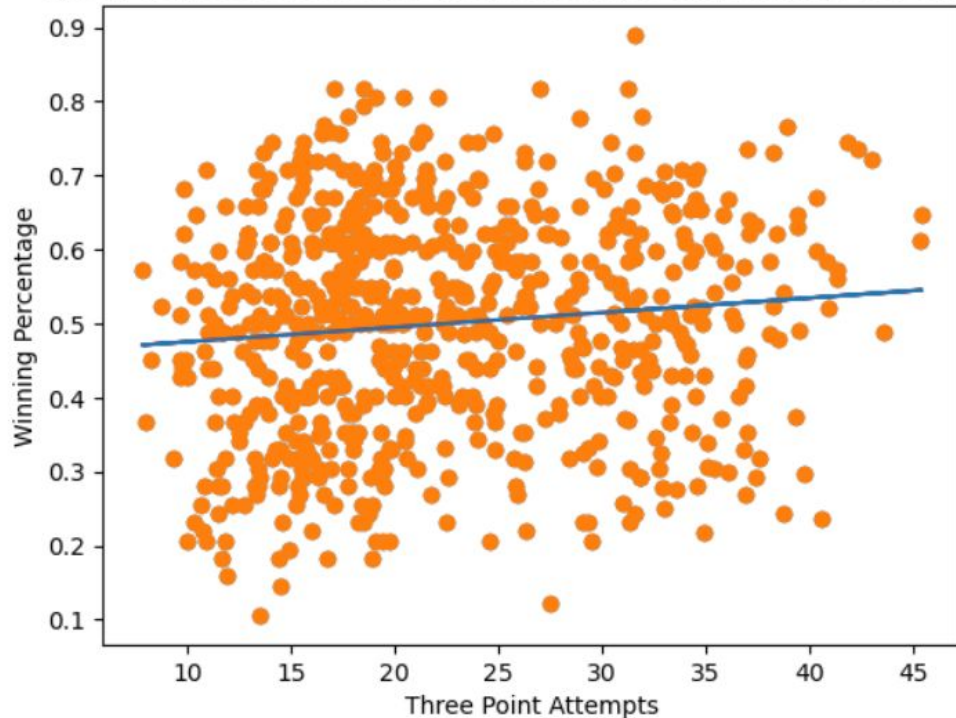
the r value is 0.4946520764122781

Correlation between Three Point Percentage and Winning Percentage



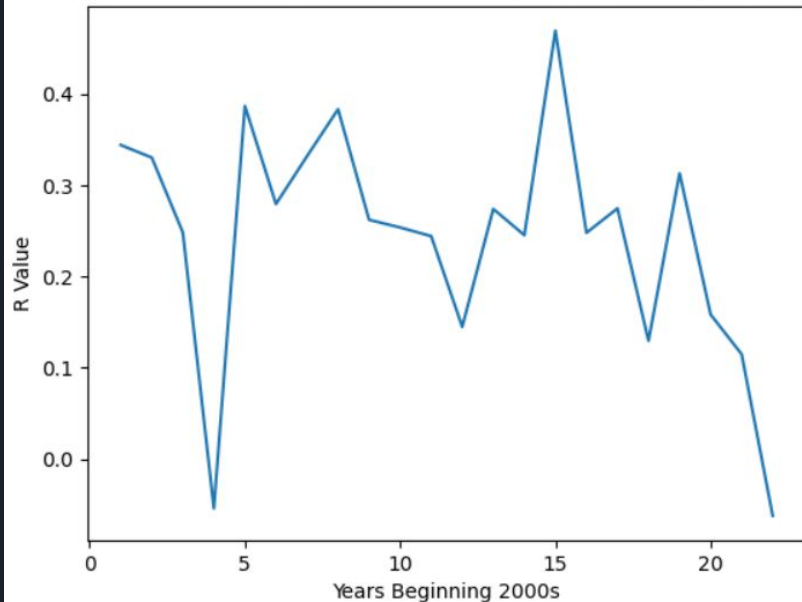
The Effect of 3 Point Attempts on Win Percentage

Linear Regression on Three Point Attempts and Winning Percentage

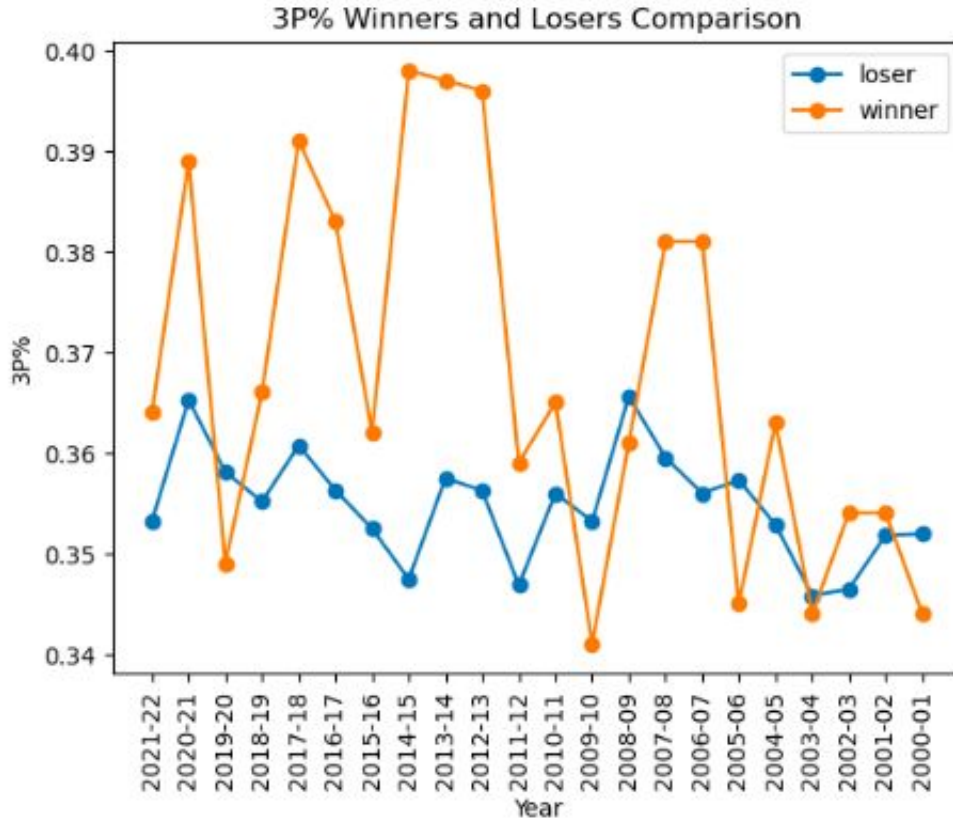


the r value is 0.10802816267821971

Correlation between Three Point Attempts and Winning Percentage



3-point scoring and the NBA Finals



- 3 Point % Correlates with Winning In NBA
- Also correlates with NBA Finals success.
- Winners after 2010 trend



How we came up with this data

- Gather:
 - Investigate data
 - Basketball Reference CSV
 - Manipulated CSV
- Import:
 - pandas
 - matplotlib.pyplot
 - numpy
 - linregress
- methods:
 - .loc
 - .dropna
 - .sort_values
 - .plt
 - For loops
 - lists



Challenges

- Nan values
- Merging data frames for comparison



Next Steps

- 3 Points Correlated with Success in the NBA.
- Evaluate different sets and scopes of data.
- Investigate individuals
- Investigate other leagues