



FIFA World Cup Historical Trends

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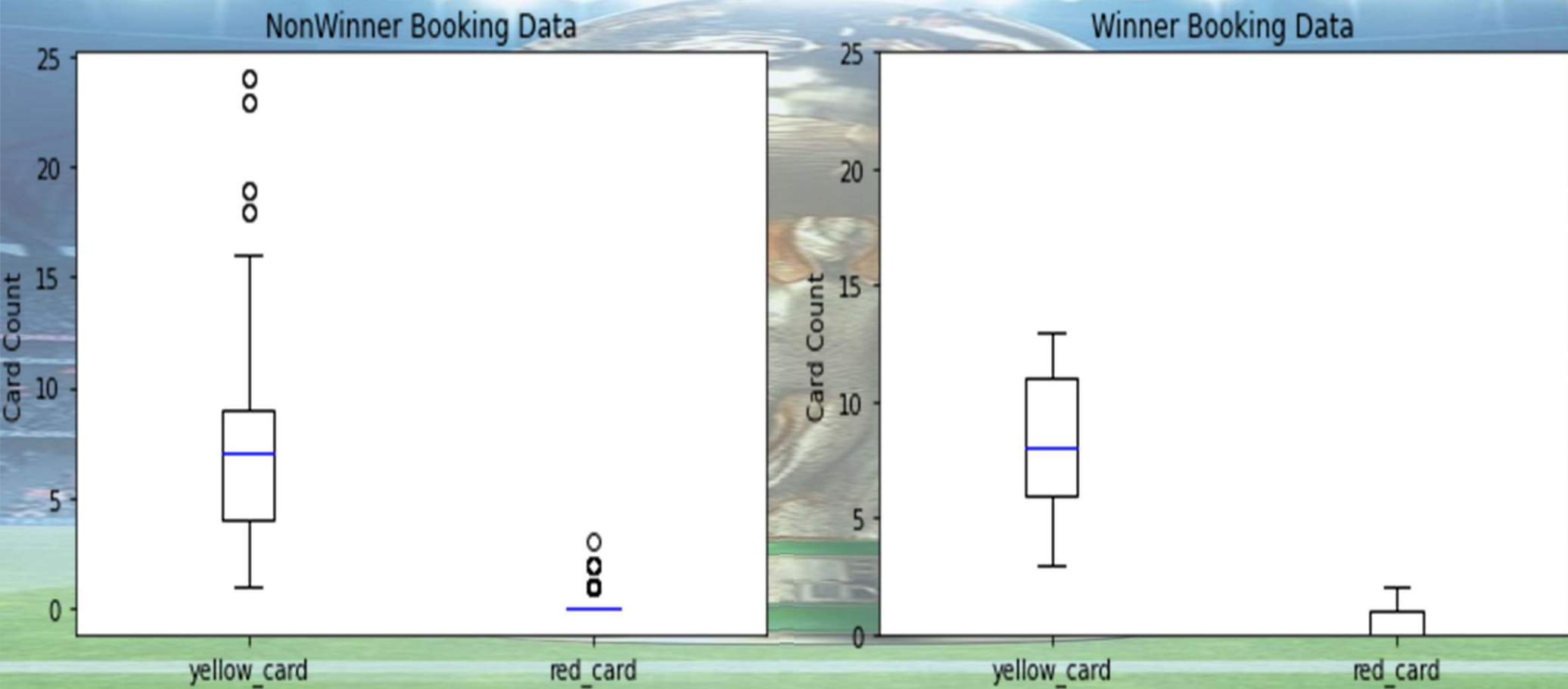
Introduction



Overview

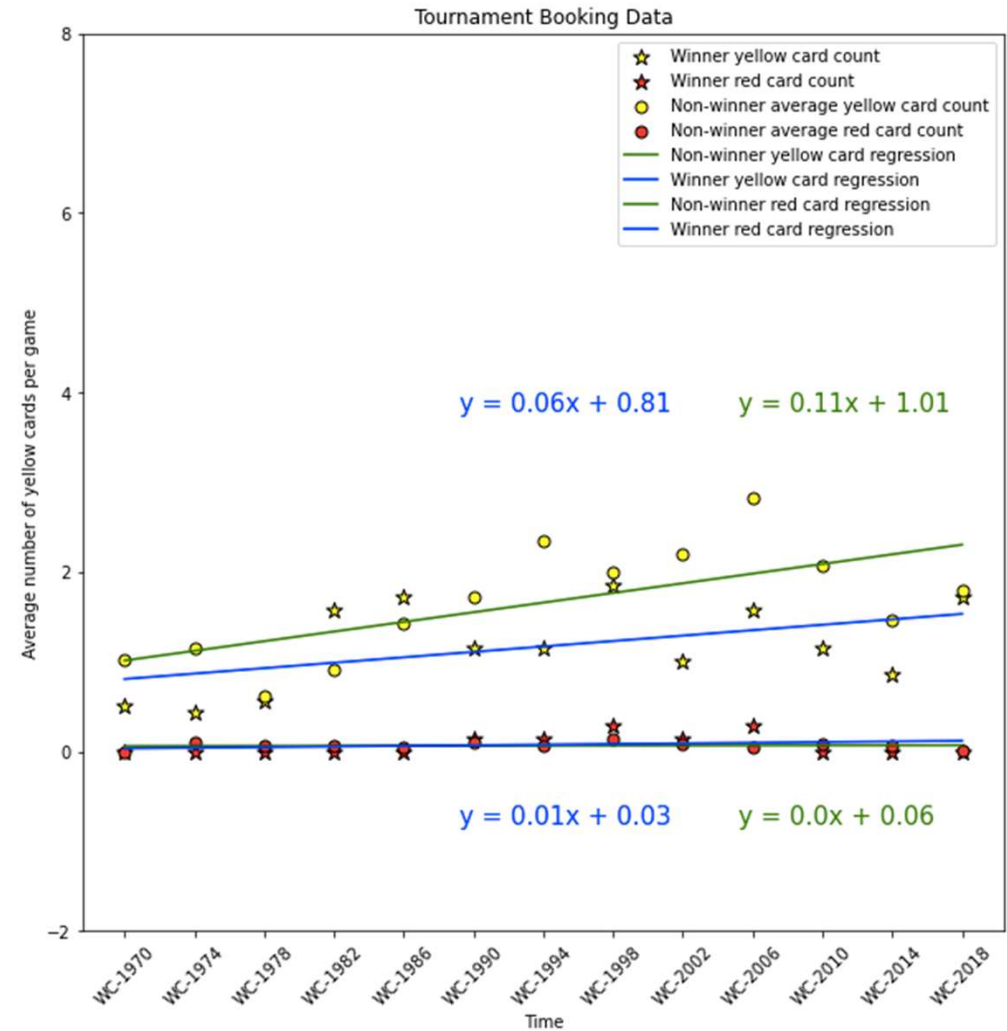
- Booking Trends: Comparing between Winners & Non Winners Average
- First Score: How many times did winner scored first vs non winners
- Team Game or Individual Brilliance: Star Player Performance in a Winners and Non Winners team
- Regional Winners: How often the host country was the winning country as well as determining the trend in consecutive winners
- Penalty Kicks: Conversion Ration between winners & non winners

Booking Trends



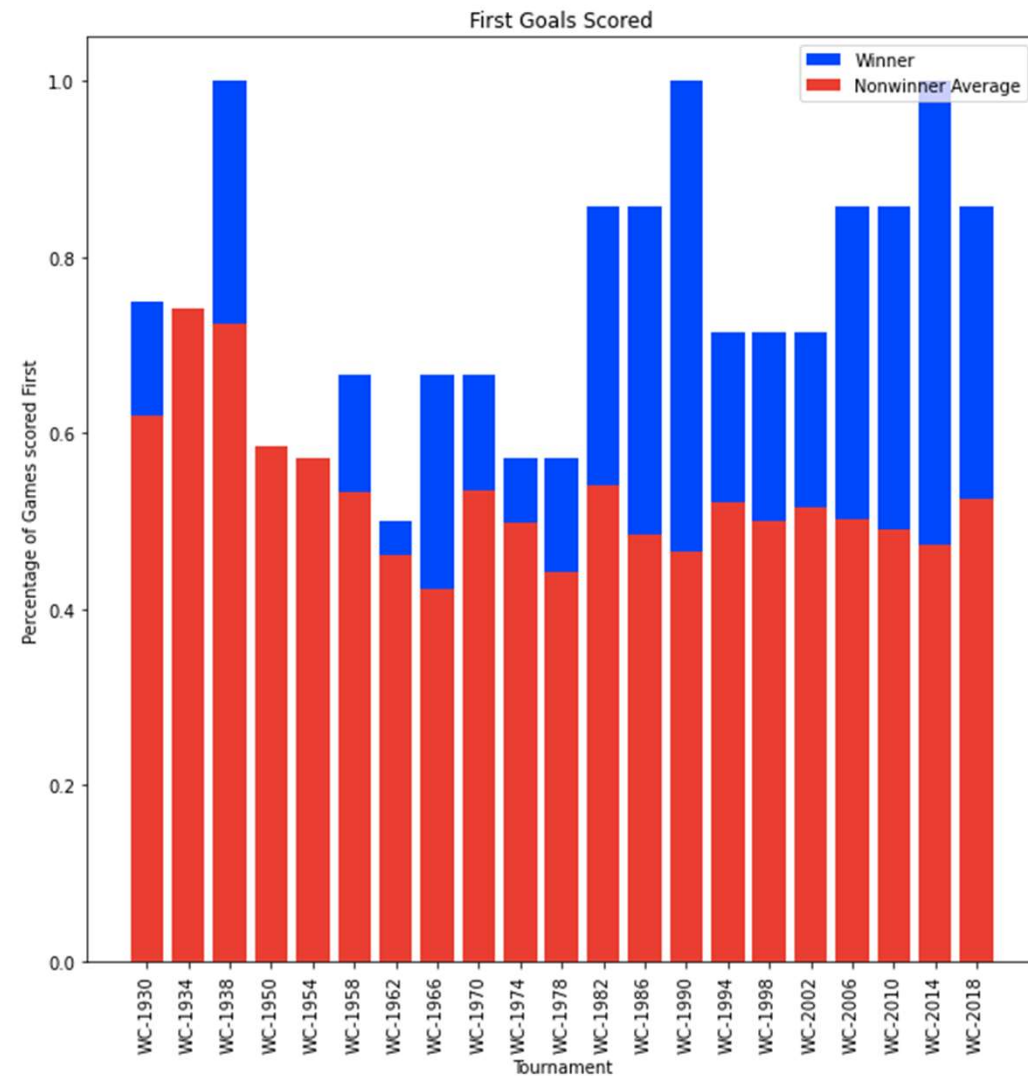
Booking Trends:

- Over the years , average yellow card per game has been increased for both winners and non winners, but non- winners had higher increase than winners. P value is 0.03 .
- In terms of red cards, winners and non-winners have identical trends and very stagnant over the years.



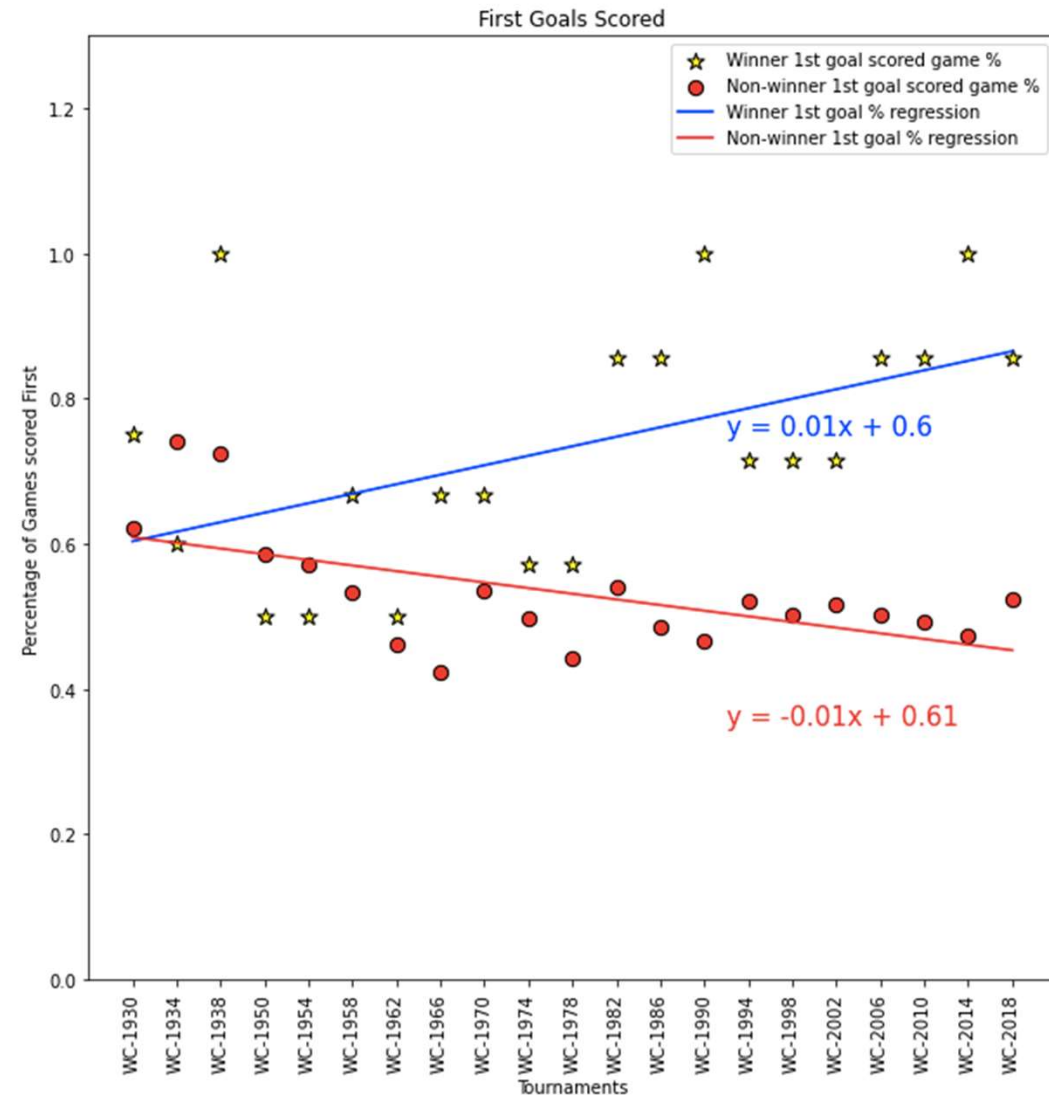
First Score

- In the initial years of FIFA, although winners had tendency to have higher percentage of games scored first, the discrepancy has become significant since 1980s.



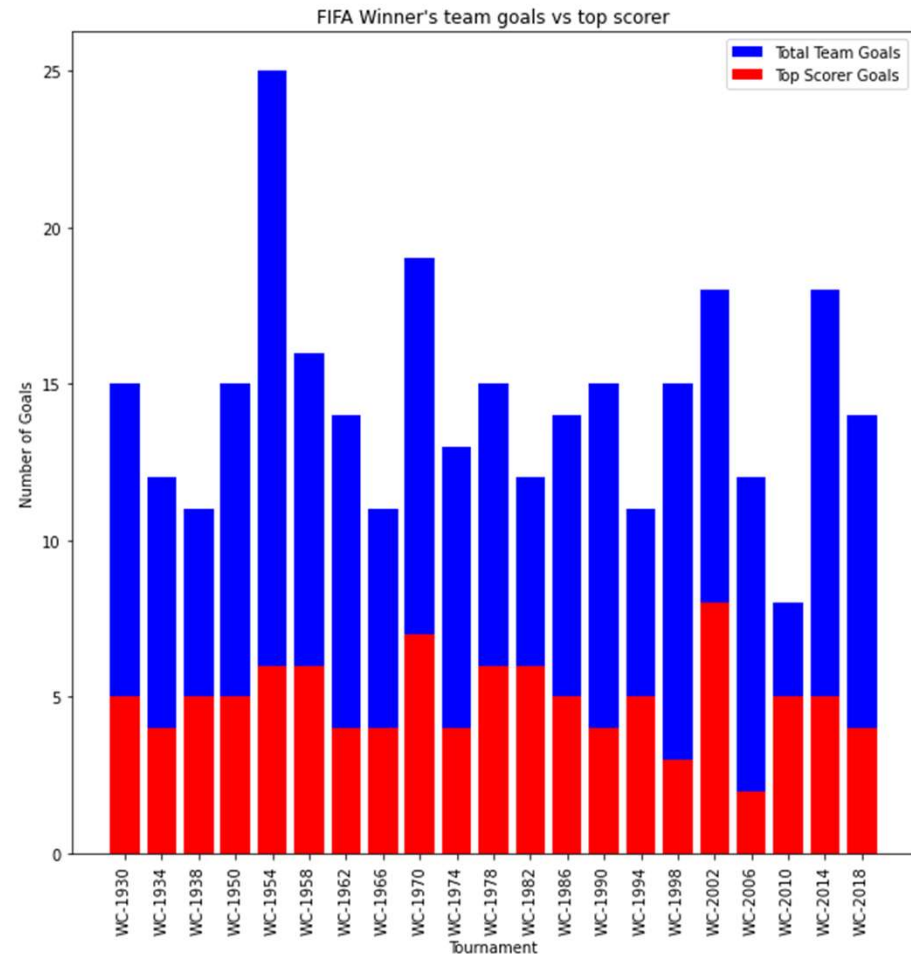
First Score

- We can see that not only the gap between the 2 has increased over the years, winners have an increasing tendency and non winners have decreasing tendency. It shows that scoring first goal is a strong factor to become winner probably due to psychological effect.



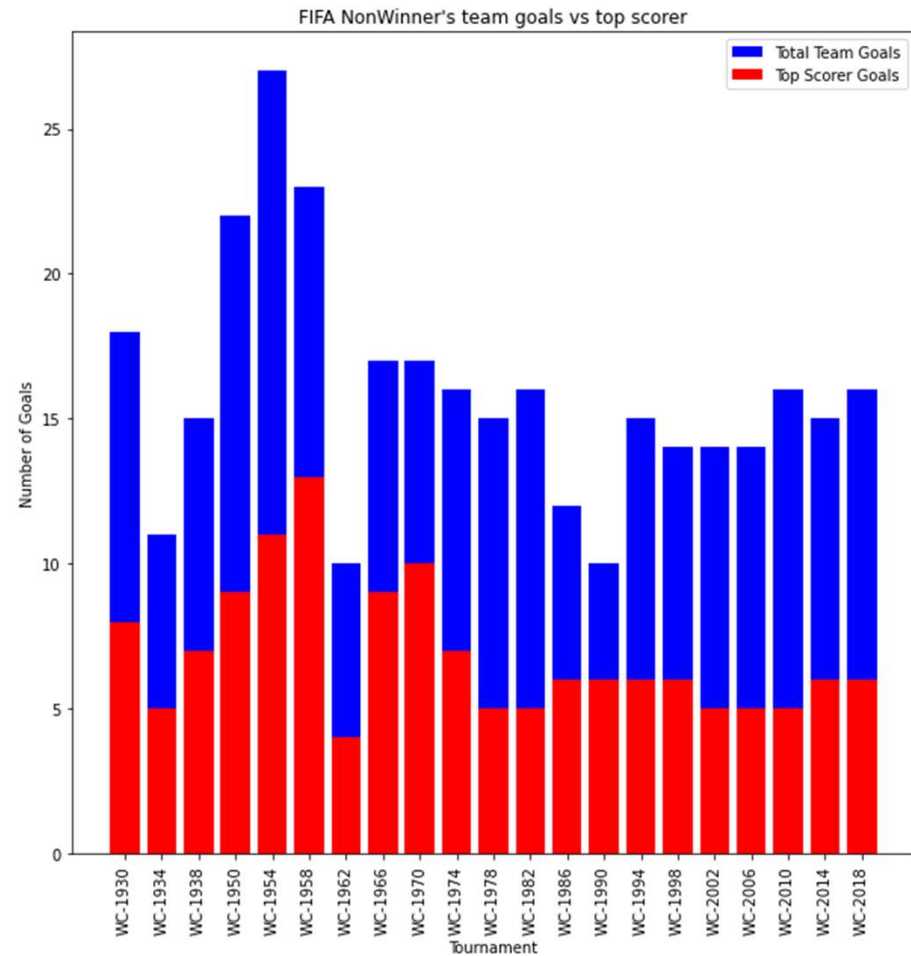
Team Game or Individual Brilliance

- Highest scoring winning teams are especially diverse
- Winning team top scorer never reach double digit goals



Team Game or Individual Brilliance

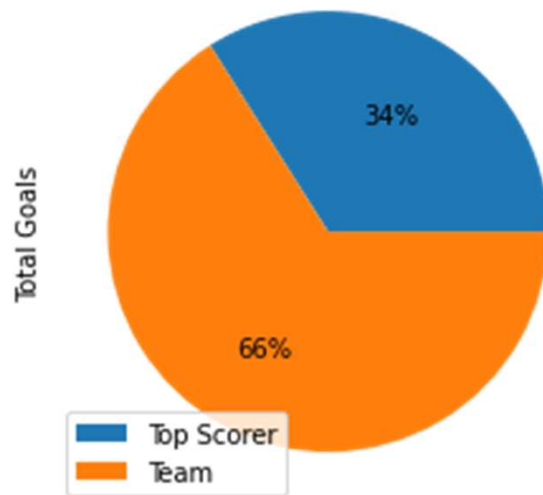
- Winners have more diverse scoring squad than non winners.



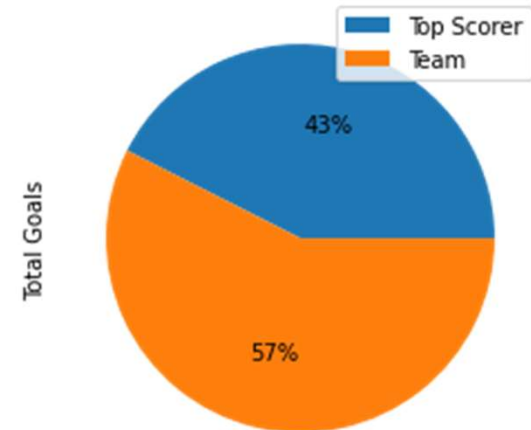
Team Game or Individual Brilliance

The p-value of 0.0000018313860953475158 shows statistical significance

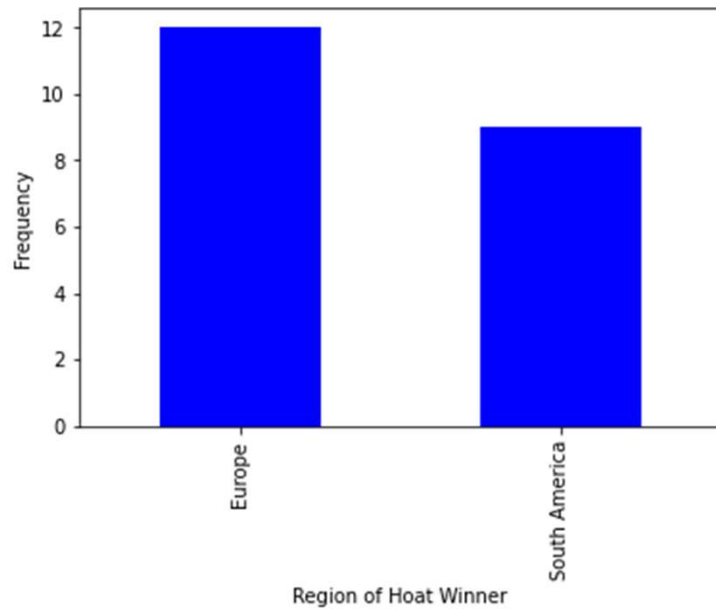
Top Scorer Goals vs Total Team Goals For Winning Teams



Average Top Scorer Goals vs Total Team Goals For Non Winning Teams

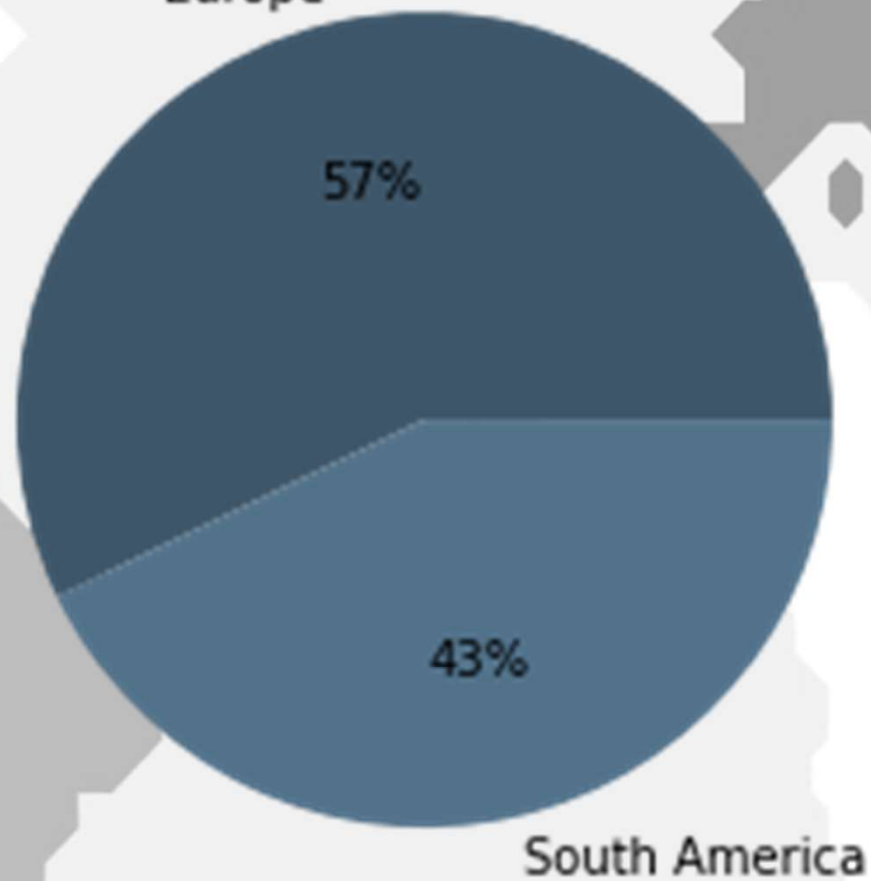


Regional Winners



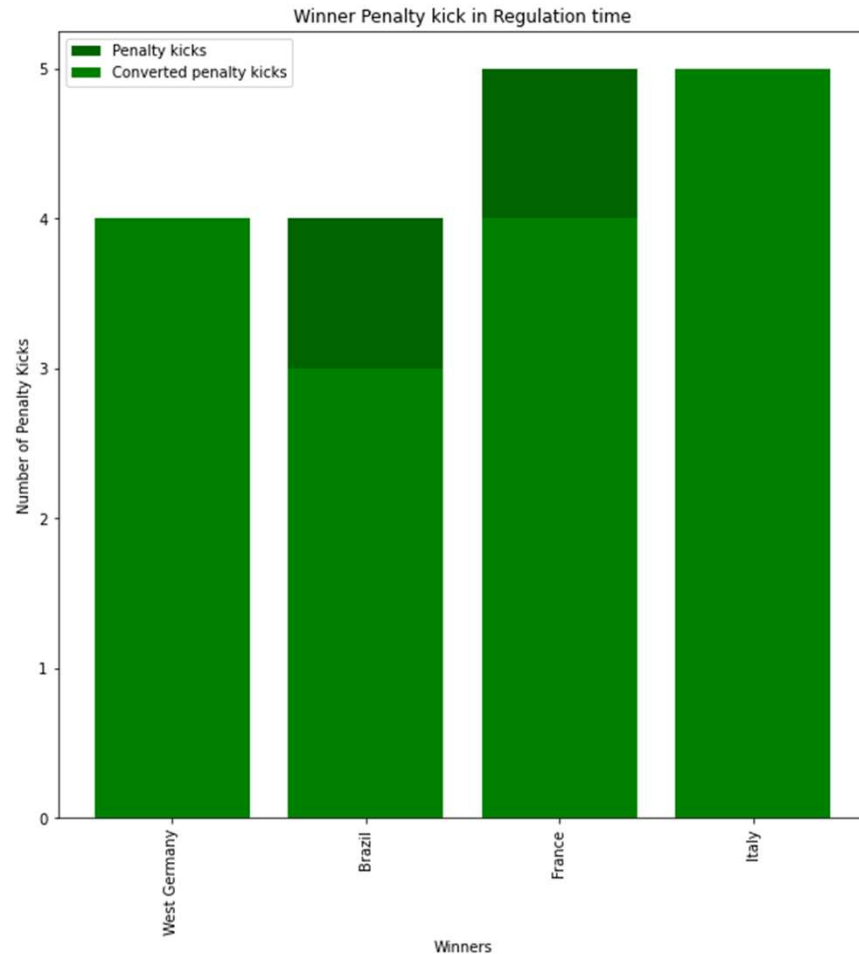
Regional Winners

Regions of Host Winners

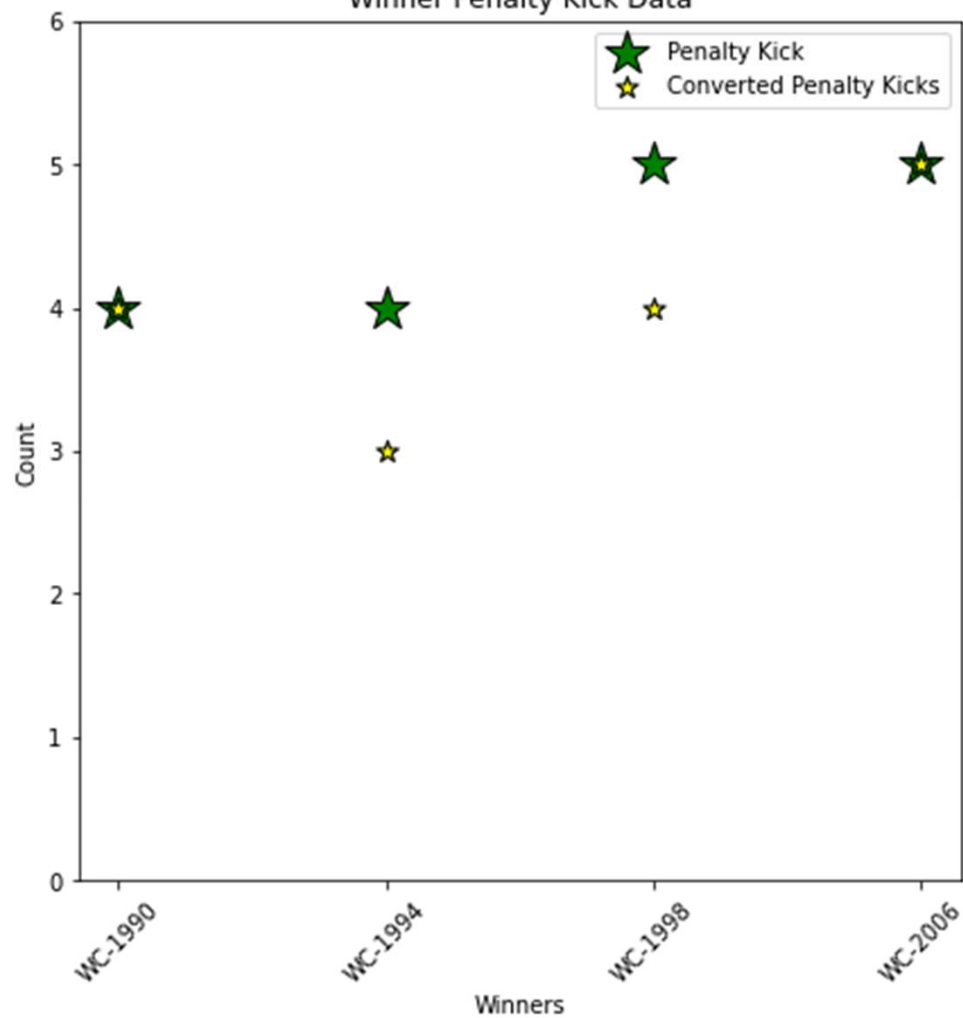


Penalty Kicks

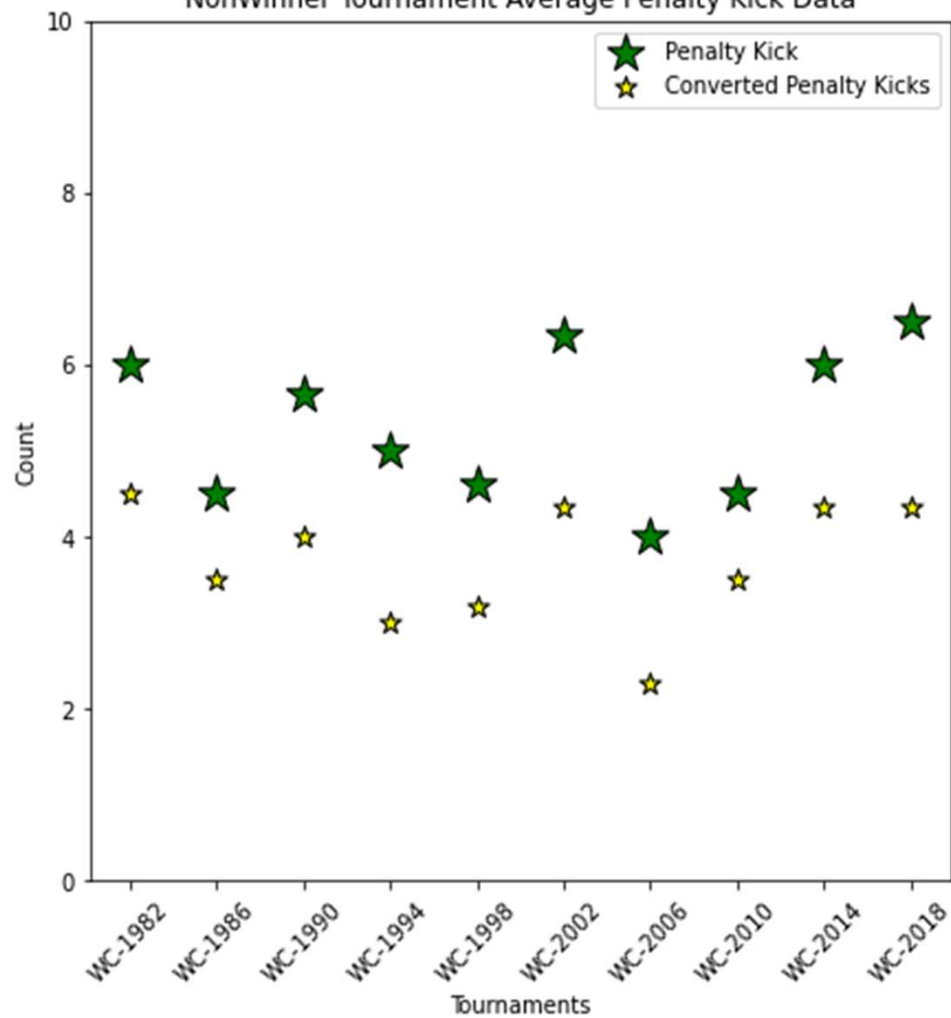
- The winning teams tend to have less number of penalty kicks received than non winning teams, but their conversion rate is higher than non winning teams



Winner Penalty Kick Data



NonWinner Tournament Average Penalty Kick Data



Conclusion

- **The summary of our findings are;**
- Winners have a tendency to receive less yellow cards per game on average than non-winners. In terms of red cards, there is no relevance.
- Winners have been scoring the first goals at much higher percentage than non winners. The gap has been increasing over time.
- Winners have more diverse scoring squad than non winners.
- All the winners came from only 2 regions in the history of FIFA. (Europe -57% , South America-43%)
- Winners tend to have less number of penalty kicks received than non winning teams, but their conversion rate is higher than non winning teams.



Thank you

