

BET366

Premier League Review 2018/2019



BET 366

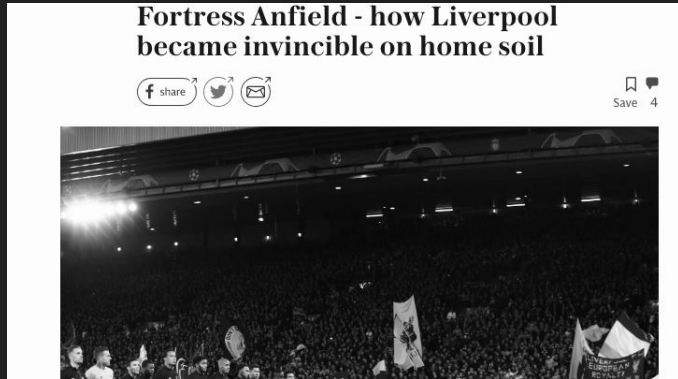
We are a betting
marketing
intelligence agency
providing analysis on
football statistics:

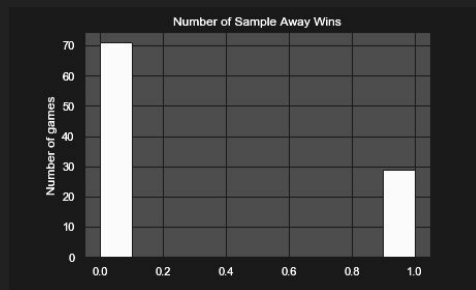
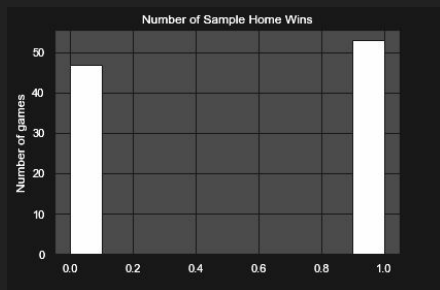
- Examining widely held myths surrounding football matches
- Delivering actionable insights to odds-makers at BET366

1. Is a team more likely to win playing at home?

H0: There is no relationship between the team's home and away match performance.

H1: A team is significantly more likely to win if they play at home.





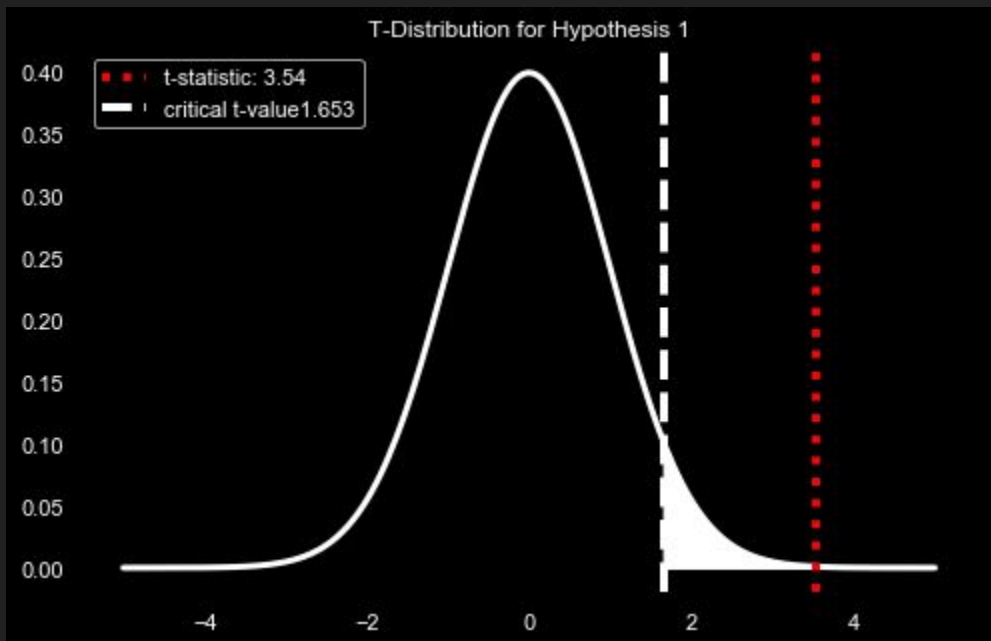
The probability that the Null Hypothesis is false is 94%.

The Null Hypothesis is rejected

P value: 0.00049

Effect size (cohen's d): 0.50

Power: 94%



2. Do an older player play more minutes?

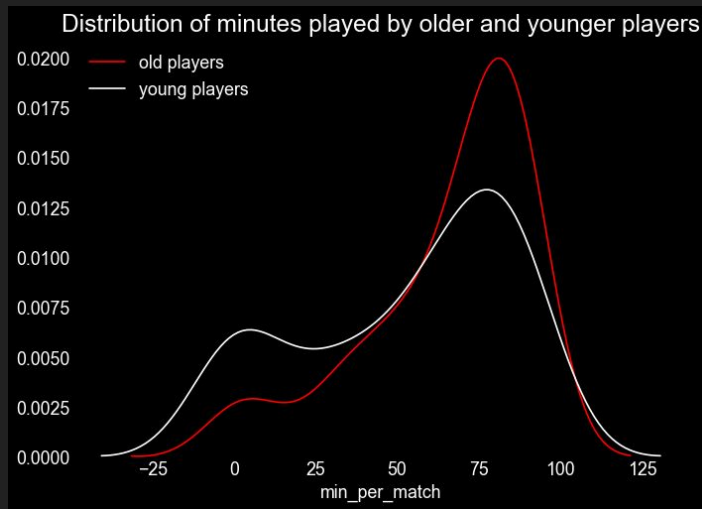
H0: There is no relationship between a player's age and the minutes that a player plays in a season.

H1: A player is significantly more likely to play more minutes if they are older.

WORLD FOOTBALL

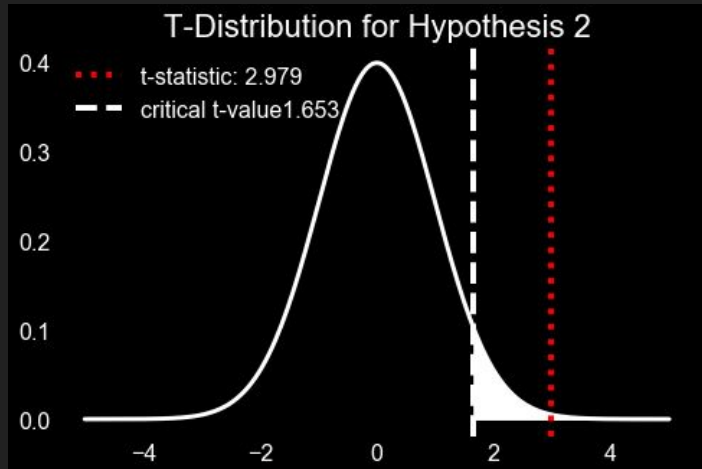


World Football: 15 Players Who Got Better in Their 30s



The probability that the Null Hypothesis is false is 84.2%.

The Null Hypothesis is rejected.



P-value = 0.003

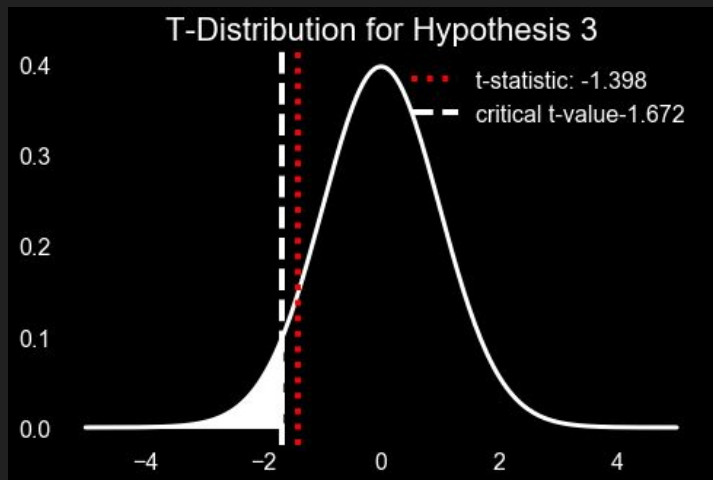
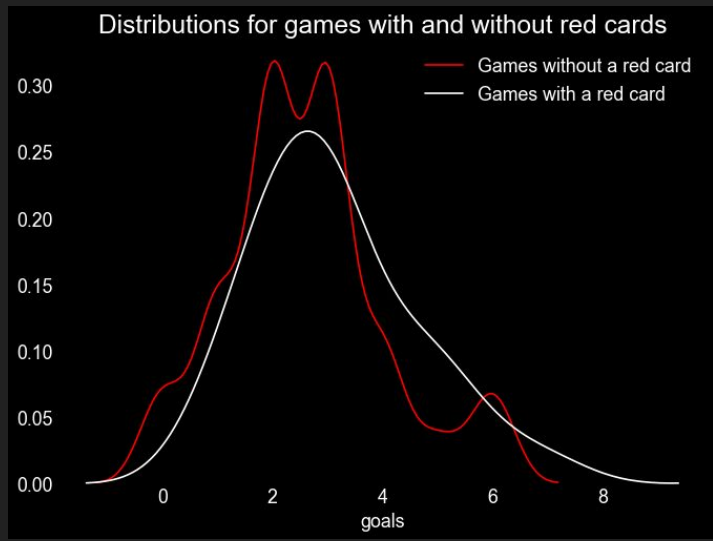
Effect size (cohen's d)=0.42

Power = 84.2%

3. If there is one or more red cards in a game, are more goals scored?

H0: There is no significant relationship between the number of cards in a game and the number of goals scored.

H1: If there are more cards in a game, it is significantly more probable that there will be more goals.



The probability that the Null Hypothesis is false is 27.9%.

The Null Hypothesis remains valid.

P-value = 0.16

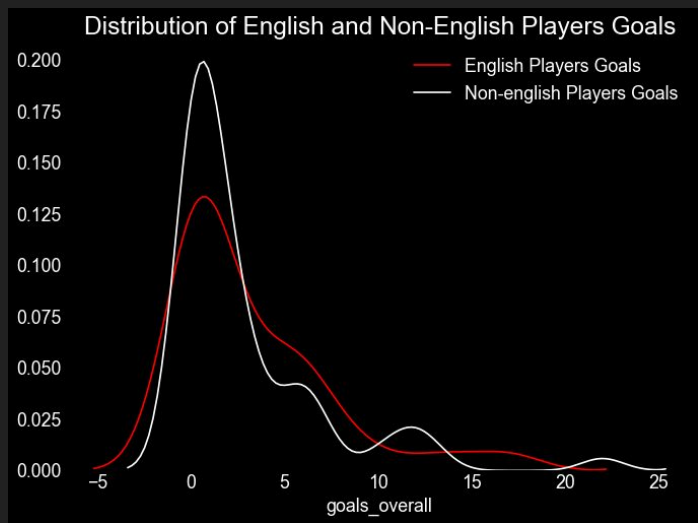
Effect size (cohen's d) = -0.36

Power = 27.9%

4. If a foreign player
is more likely to score
than an english
player?

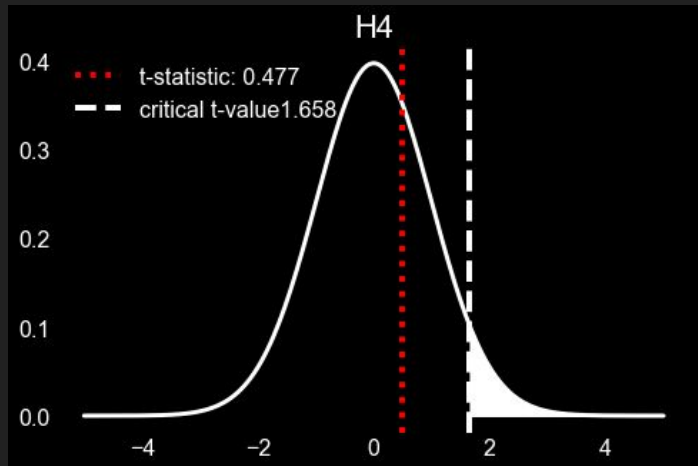
H0: A foreign player is no more
likely to score more goals than
an english player.

H1: A foreign player is more likely
to score more goals than an
english player.



The probability that the Null Hypothesis is false is 7.5%.

The Null Hypothesis remains valid.



P-value = 0.63

Effect size (cohen's d)=0.08

Power = 7.5%

Suggestions

- Change betting odds surrounding home and away games
- Change betting odds surround substitutions of older and younger players
- Reconsider effect of red cards on a game
- Reconsider attitudes to difference between English and foreign nationals

Next Steps

- Gather more data from more leagues
- Gather more data from previous years
- Perform regression analyses