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

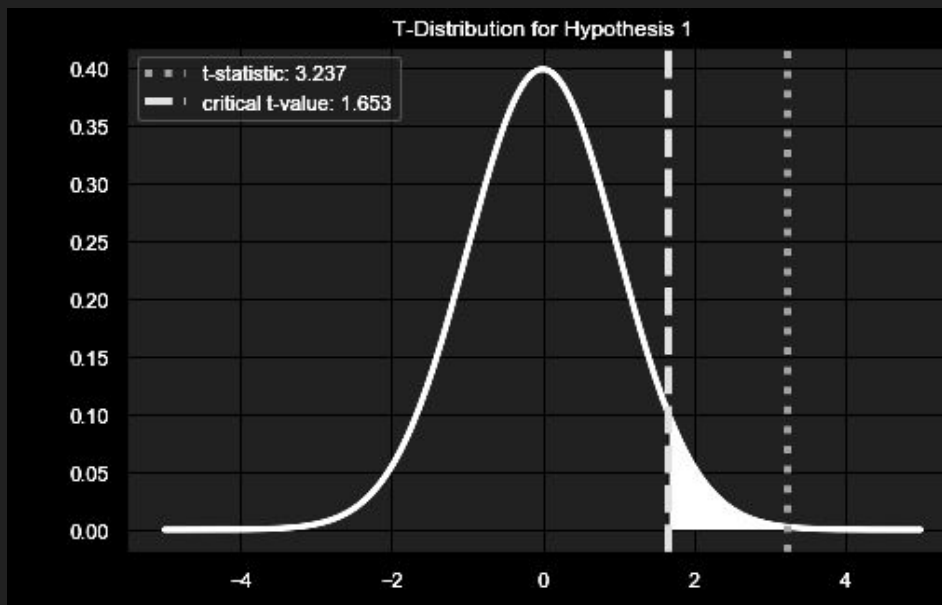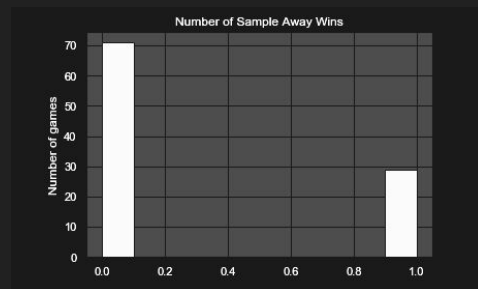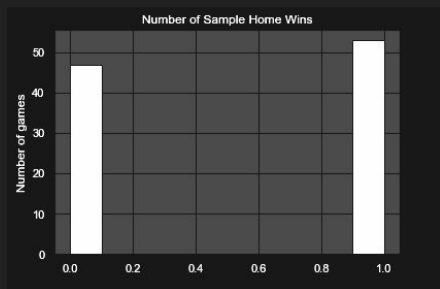- Delivering actionable insights to odds-makers at BET366

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

Fortress Anfield - how Liverpool became invincible on home soil

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.

Number of Sample Home Wins

Number of Sample Away Wins

T-Distribution for Hypothesis 1
- t-statistic: 3.237
- critical t-value: 1.653

P value: 0.0007

Effect size (cohen's d): 0.46

Power: 89.9%

2. Is there a relationship between the age of a player and the minutes that the player plays?

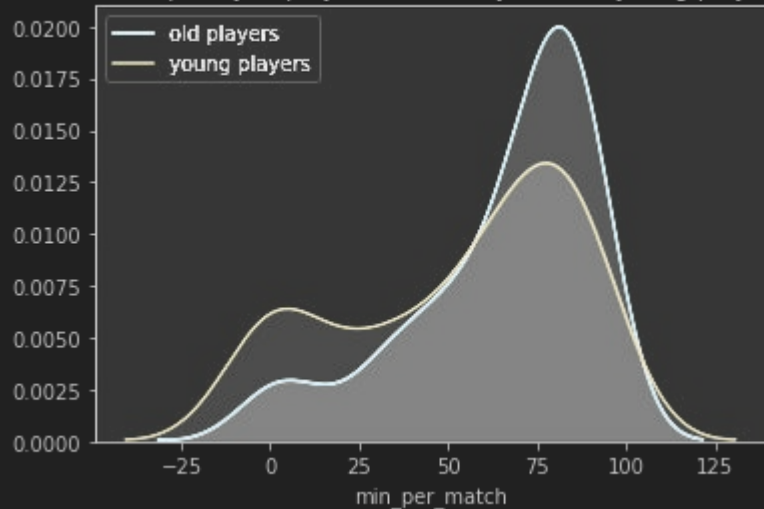H0: There is no relationship between a player's age and the minutes that a player plays in a season.

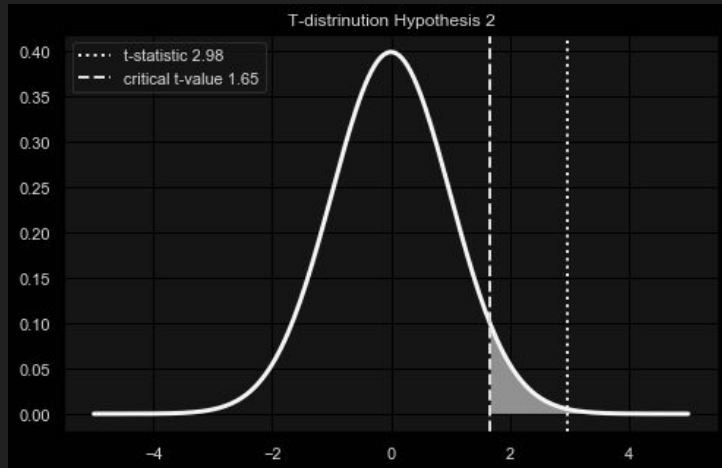H1: A player is significantly more likely to play more minutes if they are older.

The frequency of played minutes by old and young players

T-distrinution Hypothesis 2
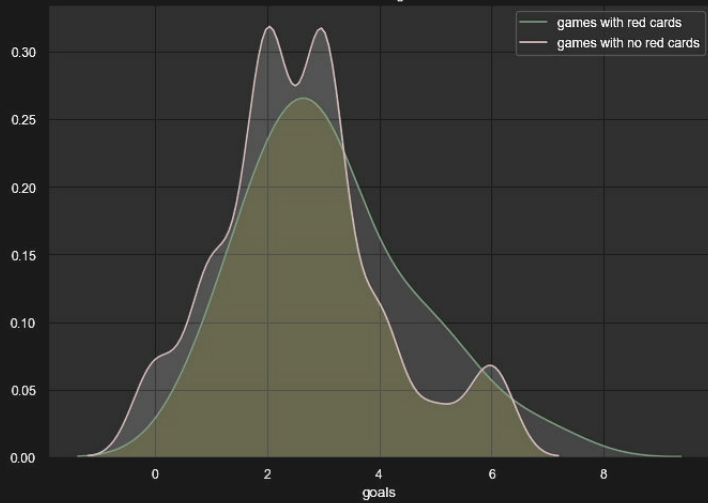
P-value = 0.003

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 the if there are more cards in a game, it significantly more probable that there will be more goals.
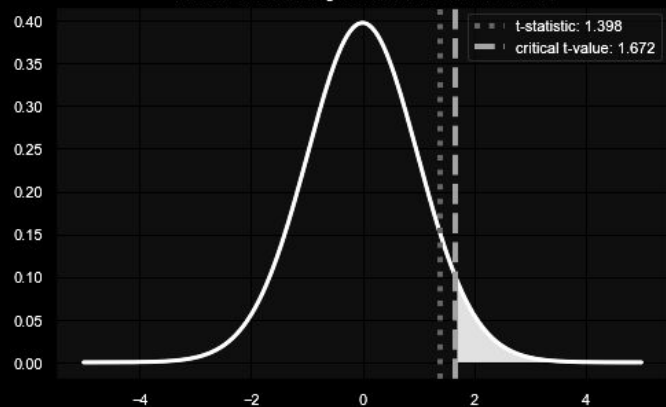
Games with no red cards vs games with a red cards

T-Distribution showing critical T-value and T-statistic
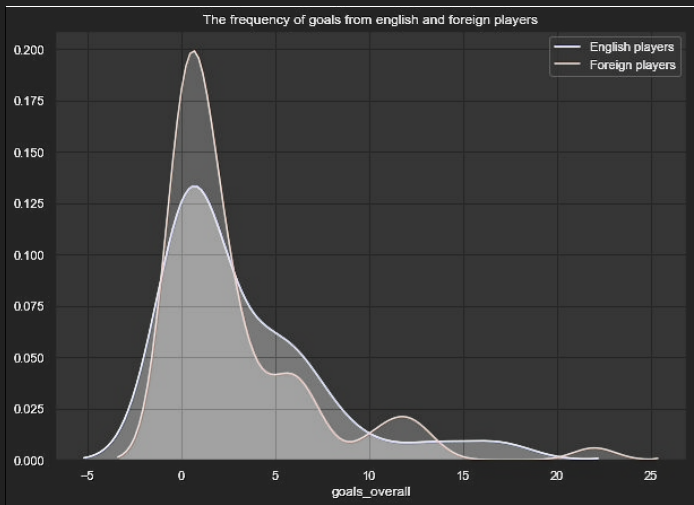
P-value = 0.16

Effect size (cohen's d)=0.36

Power = 27.9%

4. If a foreign player 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 frequency of goals from english and foreign players

The T-Distribution Hypothesis 4

P-value = 0.63

Effect size (cohen's d)=0.08

Power = 7.5%