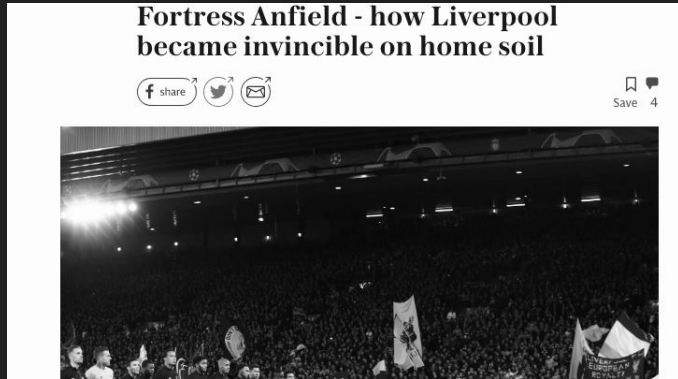# BET366

Premier League Review 2018/2019

BET 366

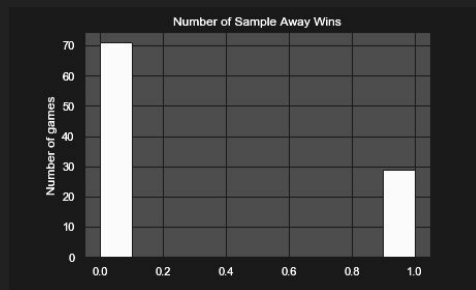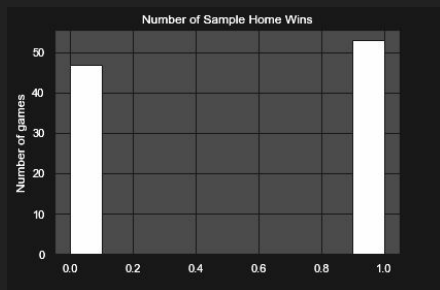We are a betting marketing intelligence agency providing analysis on football statistics:

- 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.

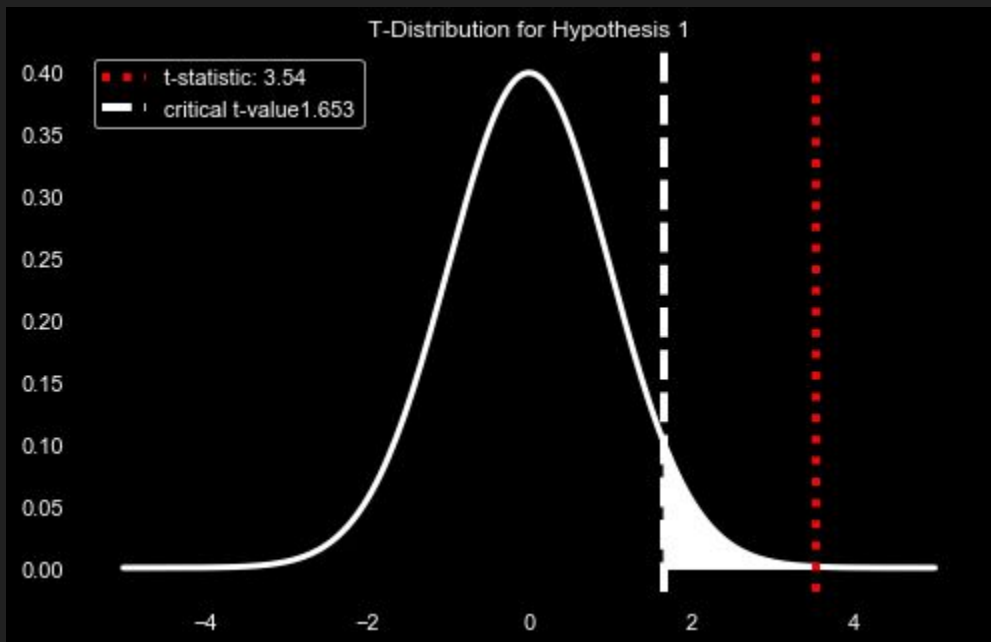H1: A team is significantly more likely to win if they play at home.

The probability that the Alternative Hypothesis is true is 94%.

The Null Hypothesis is rejected

P value: 0.00049

Effect size (cohen's d): 0.50

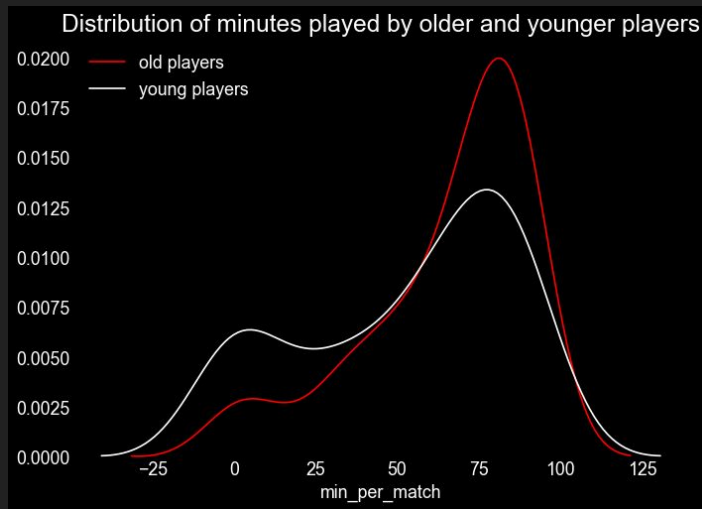Power: 94%

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.

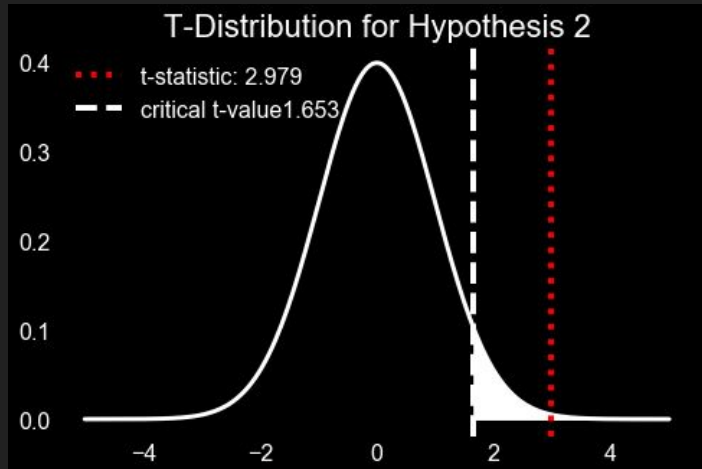H1: A player is significantly more likely to play more minutes if they are older.

The probability that the Alternative Hypothesis is true is 84.2%.
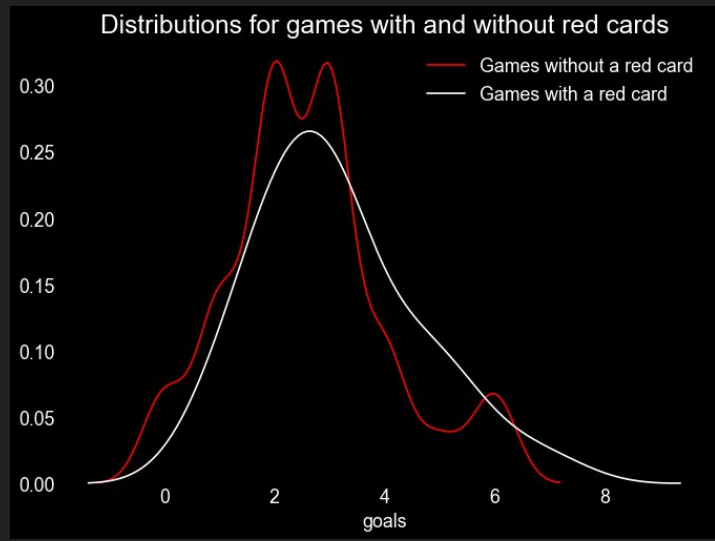
The Null Hypothesis is rejected.

P-value = 0.003

Effect size (cohen's d)=0.42

Power = 84.2%

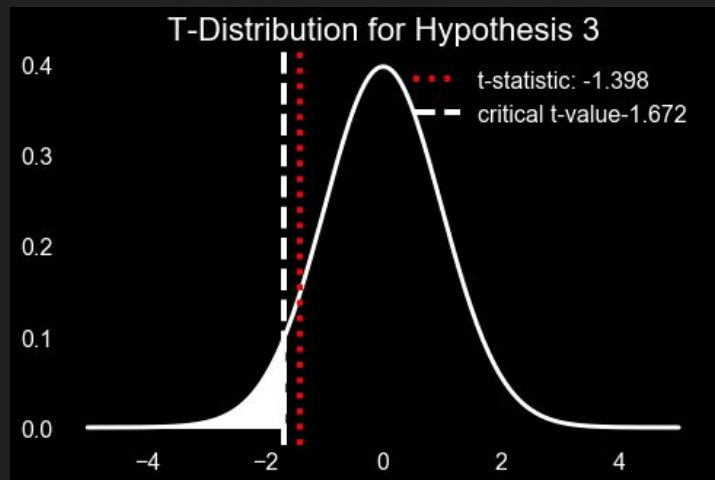3. If there is one or more red cards in a game, are more goals scored?

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 Alternative Hypothesis is true is 27.9%.

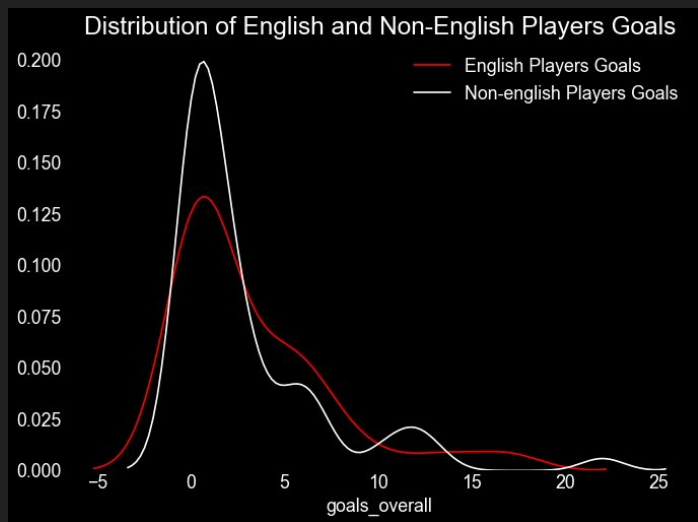The Null Hypothesis remains valid.

P-value = 0.16

Effect size (cohen's d)= -0.36

Power = 27.9%

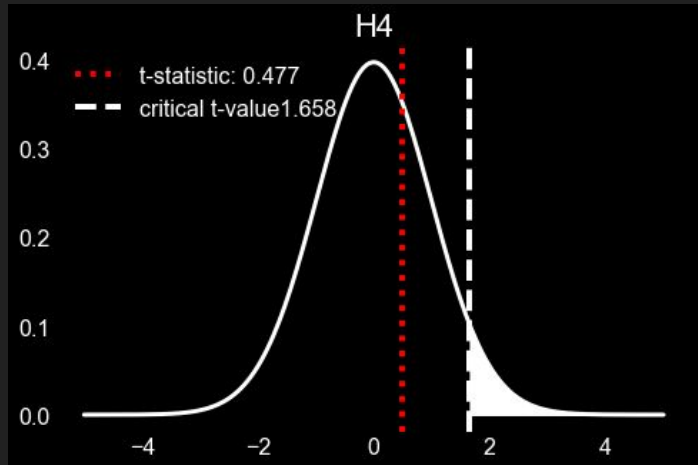4. If a foreign player is more likely to score than an english player?

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 Alternative Hypothesis is true 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