

Oddstradamus

Good odds and where to find them

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Overview

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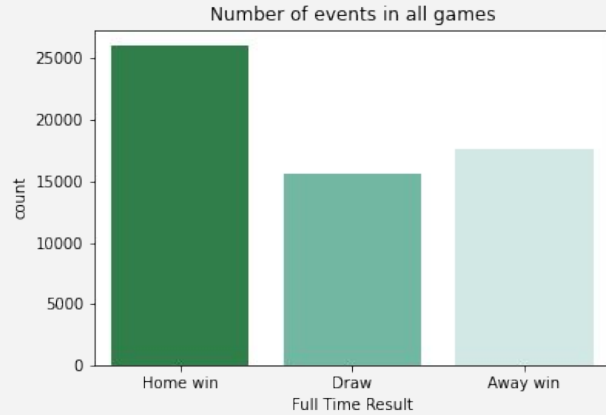
Task

- Development of a profitable long-term strategy in the area of sports betting
 - selection of suitable football matches
 - prediction of the corresponding result
 - determining the optimal stake per bet

Insights

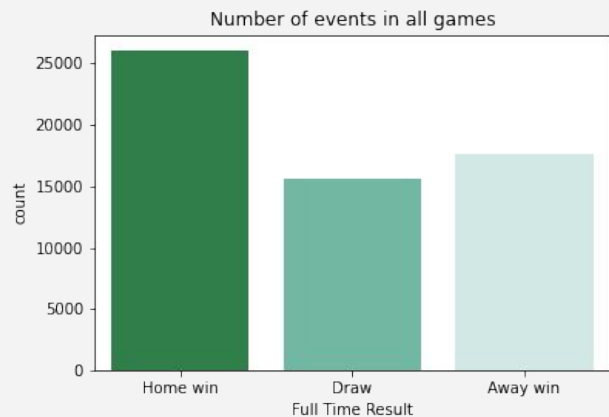
- 60.000 Football matches (2013 - 2021)
- historical match data
 - goals
 - shots
 - shots on target
 - corners
 - fouls
 - yellow cards
 - red cards
 - odds

Insights

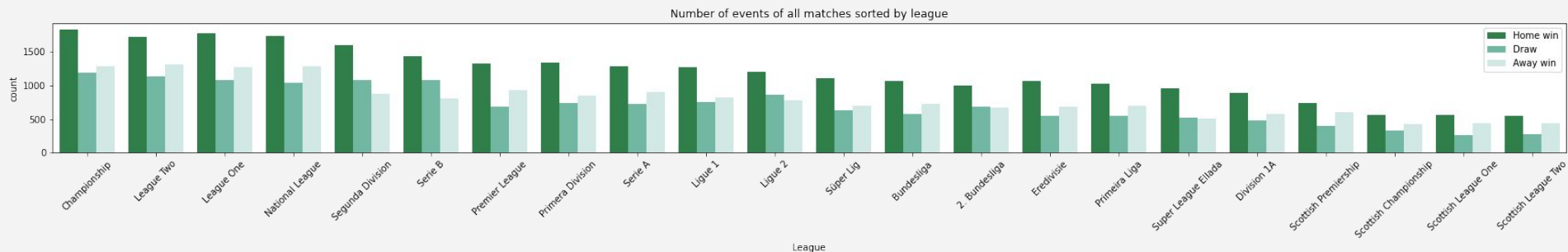


- about 44% of all matches end with a home win
- home advantage exists

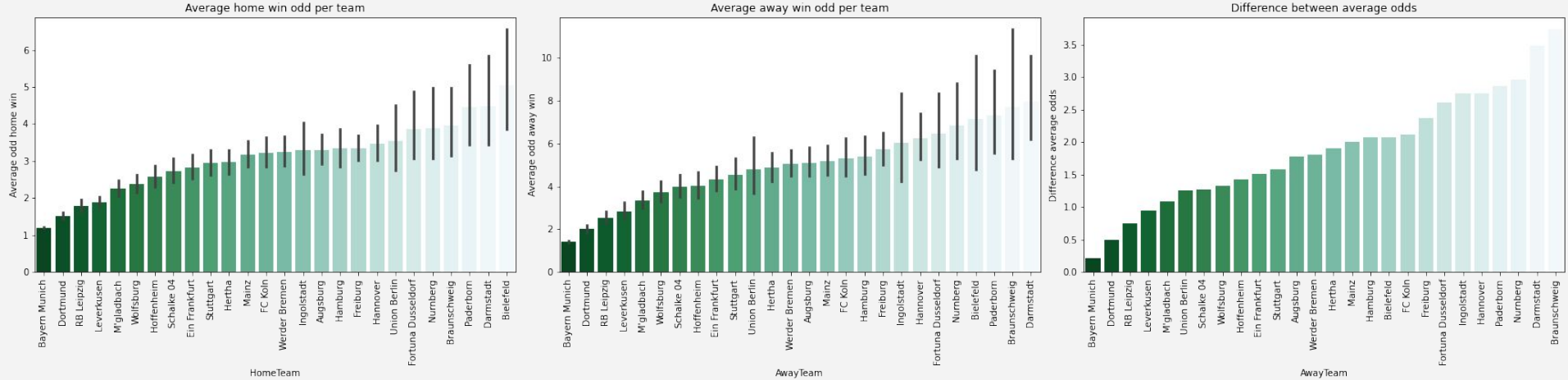
Insights



- about 44% of all matches end with a home win
- home advantage exists
- it exists in all leagues



Insights

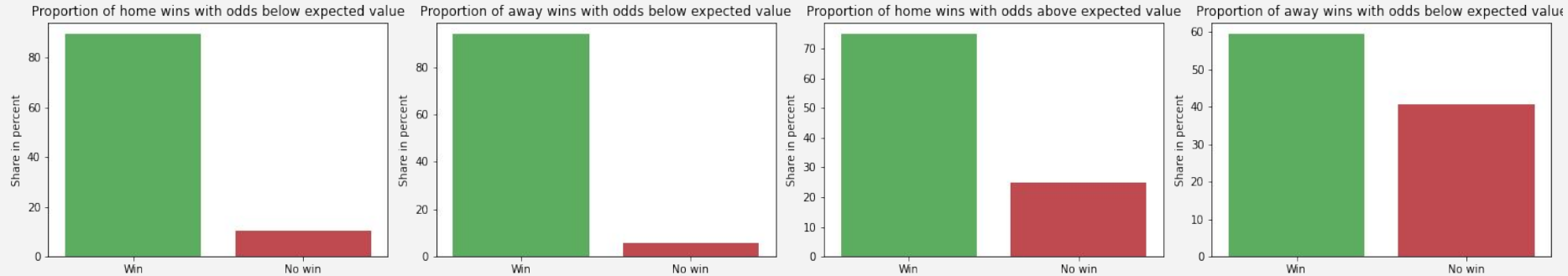


- Home advantage also reflected in odds
- considerable deviation between average home win and average away win

Insights

- games whose odds are below the expected value are won significantly more often
- games whose odds are above the expected value are more often not won
- especially fewer victories away

Ajax



Insights

Digression:

- Odds reflect probability of occurrence
- Calculation:

$$(1 / \text{Odd}) = \text{Probability of occurrence}$$

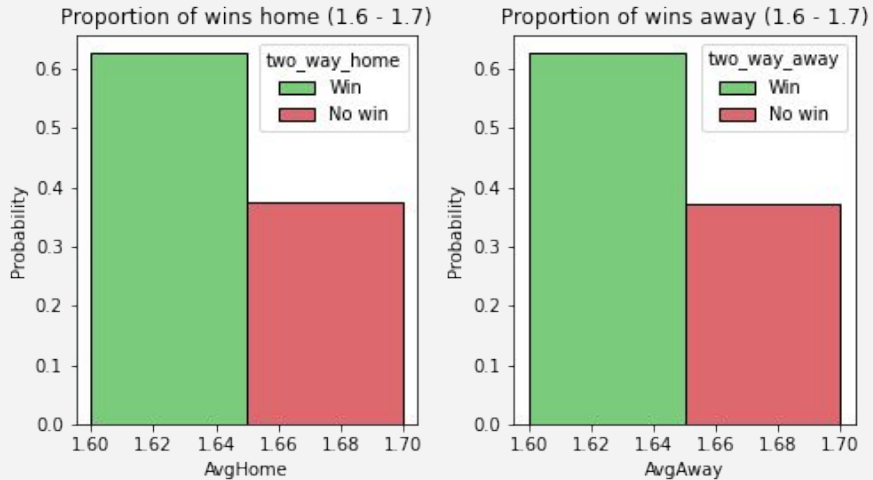
- Example:

$$(1 / 1.70) = 0,59 \rightarrow 59\% \text{ Probability of occurrence}$$

Insights

Odds of 1.60 -> 62,5 % Probability of occurrence

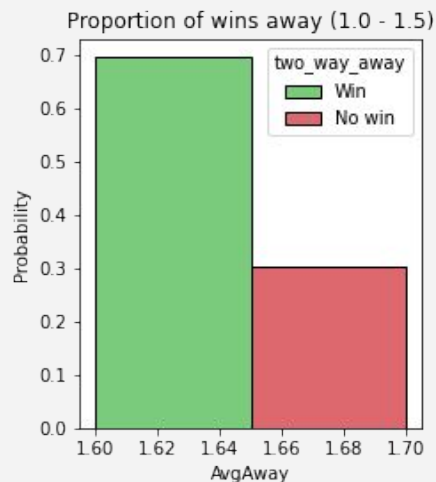
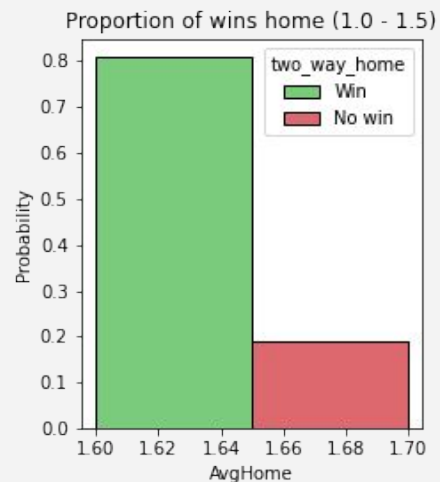
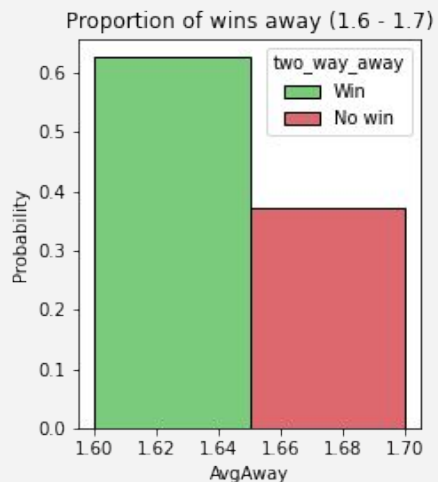
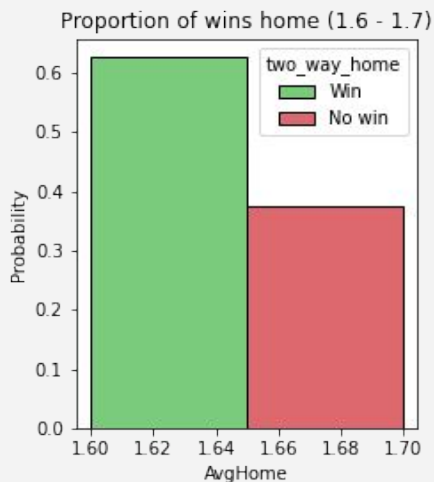
Odds of 1.70 -> 58,9 % Probability of occurrence



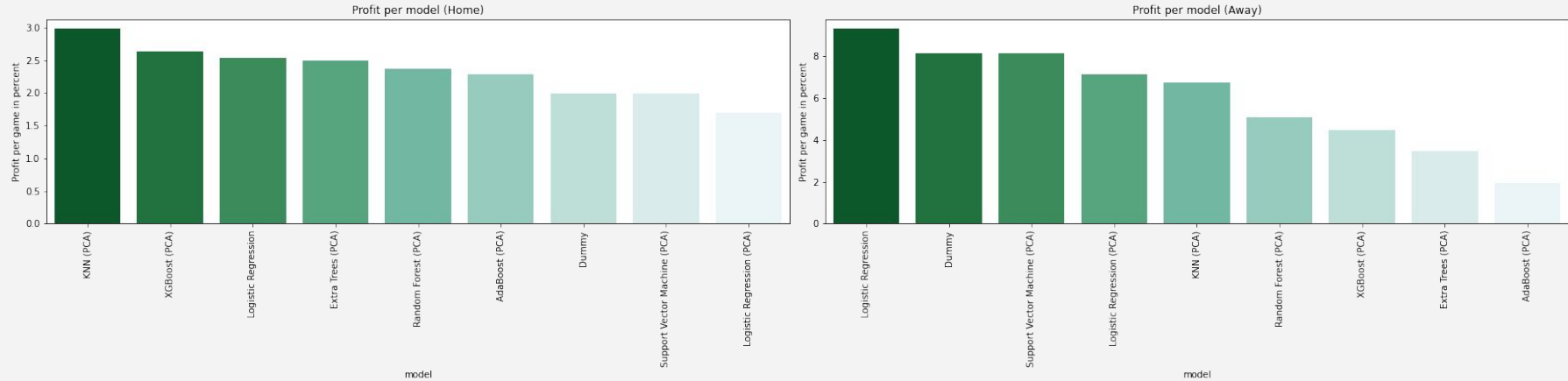
Insights

Odds of 1.60 -> 62,5 % Probability of occurrence

Odds of 1.70 -> 58,9 % Probability of occurrence



Results



- choose matches from certain clubs
- predict away win or no away win
- logistic regression performs best (9,29% profit per period)

Further Work

- Testing further algorithms
- Inclusion of further data or features
- Investigation of other target variables
- Develop different approaches to the optimal choice of betting stake

Thanks for
your Attention!