

# Sportsbetting model analysis :

=== Analyzing 1X2 Market ===

Modeling Recommendations:

Data Preparation:

- Handle missing values - consider imputation

Feature Engineering:

- Handle multicollinearity - consider feature selection or PCA
- Consider transforming id - non-normal distribution
- Consider transforming team1\_score\_ht - non-normal distribution
- Consider transforming team2\_score\_ht - non-normal distribution
- Consider transforming team1\_score\_ft - non-normal distribution
- Consider transforming team2\_score\_ft - non-normal distribution
- Consider transforming total\_goals - non-normal distribution
- Consider transforming goals\_per\_half - non-normal distribution
- Consider transforming score\_changed - non-normal distribution
- Consider transforming over\_0\_5 - non-normal distribution
- Consider transforming over\_1\_5 - non-normal distribution
- Consider transforming over\_2\_5 - non-normal distribution
- Consider transforming over\_3\_5 - non-normal distribution
- Consider transforming over\_4\_5 - non-normal distribution
- Consider transforming over\_5\_5 - non-normal distribution
- Consider transforming under\_0\_5 - non-normal distribution
- Consider transforming under\_1\_5 - non-normal distribution
- Consider transforming under\_2\_5 - non-normal distribution
- Consider transforming under\_3\_5 - non-normal distribution
- Consider transforming under\_4\_5 - non-normal distribution
- Consider transforming under\_5\_5 - non-normal distribution
- Consider transforming goal\_difference - non-normal distribution
- Consider transforming clean\_sheet\_team1 - non-normal distribution
- Consider transforming clean\_sheet\_team2 - non-normal distribution
- Consider transforming btts - non-normal distribution
- Consider transforming day\_of\_month - non-normal distribution
- Consider interaction features between: total\_goals × goals\_per\_half, total\_goals × over\_2\_5, total\_goals × under\_2\_5

=== Analyzing BTTS Market ===

Modeling Recommendations:

Data Preparation:

- Handle missing values - consider imputation

Feature Engineering:

- Handle multicollinearity - consider feature selection or PCA
- Consider transforming id - non-normal distribution
- Consider transforming team1\_score\_ht - non-normal distribution
- Consider transforming team2\_score\_ht - non-normal distribution
- Consider transforming team1\_score\_ft - non-normal distribution
- Consider transforming team2\_score\_ft - non-normal distribution
- Consider transforming total\_goals - non-normal distribution
- Consider transforming goals\_per\_half - non-normal distribution
- Consider transforming score\_changed - non-normal distribution
- Consider transforming over\_0\_5 - non-normal distribution
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- Consider transforming over\_4\_5 - non-normal distribution
- Consider transforming over\_5\_5 - non-normal distribution
- Consider transforming under\_0\_5 - non-normal distribution
- Consider transforming under\_1\_5 - non-normal distribution
- Consider transforming under\_2\_5 - non-normal distribution
- Consider transforming under\_3\_5 - non-normal distribution
- Consider transforming under\_4\_5 - non-normal distribution
- Consider transforming under\_5\_5 - non-normal distribution
- Consider transforming goal\_difference - non-normal distribution
- Consider transforming clean\_sheet\_team1 - non-normal distribution
- Consider transforming clean\_sheet\_team2 - non-normal distribution
- Consider transforming day\_of\_month - non-normal distribution
- Consider separate first/second half BTTS features
- Consider interaction features between: total\_goals × goals\_per\_half, total\_goals × over\_2\_5, total\_goals × under\_2\_5

=== Analyzing OVER\_UNDER Market ===

Modeling Recommendations:

Data Preparation:

- Handle missing values - consider imputation

Feature Engineering:

- Handle multicollinearity - consider feature selection or PCA
- Consider transforming id - non-normal distribution
- Consider transforming team1\_score\_ht - non-normal distribution
- Consider transforming team2\_score\_ht - non-normal distribution
- Consider transforming team1\_score\_ft - non-normal distribution
- Consider transforming team2\_score\_ft - non-normal distribution
- Consider transforming total\_goals - non-normal distribution
- Consider transforming goals\_per\_half - non-normal distribution
- Consider transforming score\_changed - non-normal distribution
- Consider transforming over\_0\_5 - non-normal distribution

- Consider transforming over\_1\_5 - non-normal distribution
- Consider transforming over\_3\_5 - non-normal distribution
- Consider transforming over\_4\_5 - non-normal distribution
- Consider transforming over\_5\_5 - non-normal distribution
- Consider transforming under\_0\_5 - non-normal distribution
- Consider transforming under\_1\_5 - non-normal distribution
- Consider transforming under\_2\_5 - non-normal distribution
- Consider transforming under\_3\_5 - non-normal distribution
- Consider transforming under\_4\_5 - non-normal distribution
- Consider transforming under\_5\_5 - non-normal distribution
- Consider transforming goal\_difference - non-normal distribution
- Consider transforming clean\_sheet\_team1 - non-normal distribution
- Consider transforming clean\_sheet\_team2 - non-normal distribution
- Consider transforming btts - non-normal distribution
- Consider transforming day\_of\_month - non-normal distribution
- Consider separate half-specific goal features
- Consider interaction features between: total\_goals × goals\_per\_half, total\_goals × under\_2\_5, over\_0\_5 × under\_0\_5

=== Double Chance Market Insights ===

Overall Probabilities:

1X: 65.6%

X2: 52.9%

12: 68.4%

Best Conditions by Market:

1X:

Overall Success Rate: 65.6%

Best in Competition: League

Optimal Goals Range: 1-2

X2:

Overall Success Rate: 52.9%

Best in Competition: Cup

Optimal Goals Range: 1-2

12:

Overall Success Rate: 68.4%

Best in Competition: Cup

Optimal Goals Range: 2-3

HT-FT Conversion Rates:

Home Lead Conversion: 0.0%

Away Lead Conversion: 0.0%

Draw Stability: 28.2%

## Success by Goal Margin:

### Margin of 0 goal(s):

1X: 79.3%

X2: 79.3%

12: 0.0%

### Margin of 1 goal(s):

1X: 56.3%

X2: 43.7%

12: 100.0%

### Margin of 2 goal(s):

1X: 60.8%

X2: 39.2%

12: 100.0%

### Margin of 3 goal(s):

1X: 63.7%

X2: 36.3%

12: 100.0%

### Margin of 4 goal(s):

1X: 67.4%

X2: 32.6%

12: 100.0%

### Margin of 5 goal(s):

1X: 69.1%

X2: 30.9%

12: 100.0%

### Margin of 6 goal(s):

1X: 68.6%

X2: 31.4%

12: 100.0%

### Margin of 7 goal(s):

1X: 69.2%

X2: 30.8%

12: 100.0%

### Margin of 8 goal(s):

1X: 64.5%

X2: 35.5%

12: 100.0%

Margin of 9 goal(s):

1X: 50.0%

X2: 50.0%

12: 100.0%

Margin of 10 goal(s):

1X: 20.0%

X2: 80.0%

12: 100.0%

Margin of 13 goal(s):

1X: 0.0%

X2: 100.0%

12: 100.0%

Seasonal Trends:

Best month for 1X: 10