Model Training Report: Track 2

Configuration Details

Target Variable

target

Selected Features

```
is_home_trailing, trailing_team_shots_pre80, trailing_team_fouls_pre80, trailing_team_corners_pre80, trailing_team_yellow_cards_pre80, trailing_team_sending_off_pre80, leading_team_corners_70_75, trailing_team_corners_70_75, leading_team_shots_70_75, trailing_team_corners_75_80, trailing_team_corners_75_80, leading_team_shots_75_80, trailing_team_shots_75_80, trailing_team_shots_75_80
```

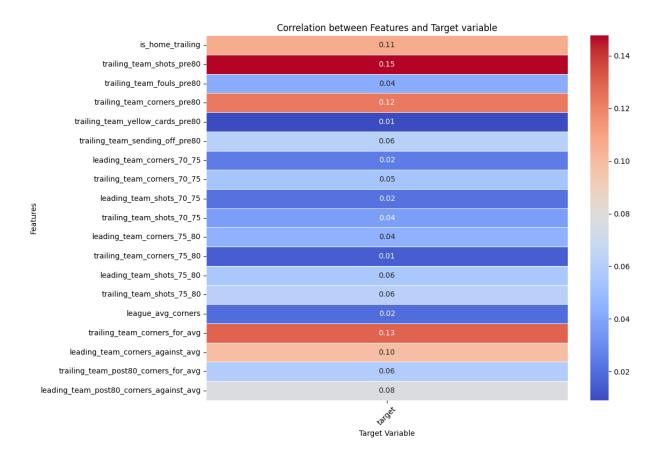
Constructed Features

```
league_avg_corners, trailing_team_corners_for_avg,
leading_team_corners_against_avg, trailing_team_post80_corners_for_avg,
leading_team_post80_corners_against_avg
```

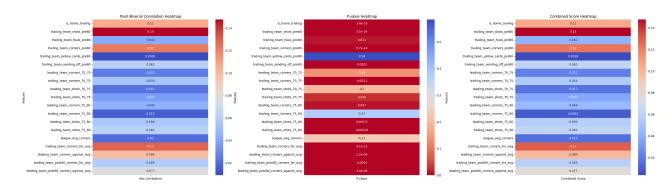
Models Trained (& Hyperparameters)

```
random_forest: {'bootstrap': True, 'min_samples_leaf': 1, 'min_samples_split': 2, 'n_estimators': 200}
logistic_regression: {'solver': 'liblinear', 'penalty': '12', 'C': 1.0}
svc: {'C': 1.0, 'kernel': 'rbf', 'gamma': 'scale'}
xgboost: {'n_estimators': 50, 'max_depth': 3, 'learning_rate': 0.1, 'subsample': 0.8}
```

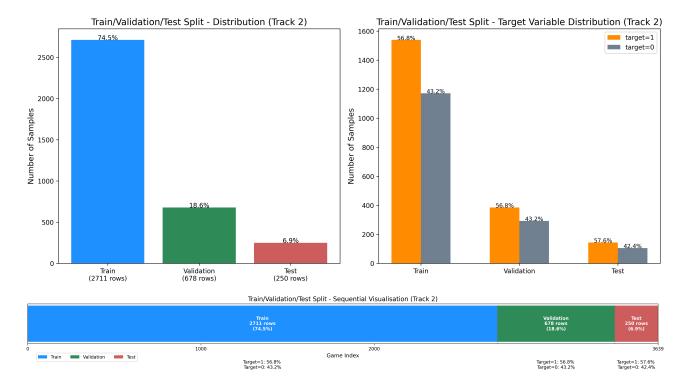
Feature Correlation



Point-Biserial Correlation



Dataset Train/Validation/Test Split Visualisation



random_forest Model

Feature Importance

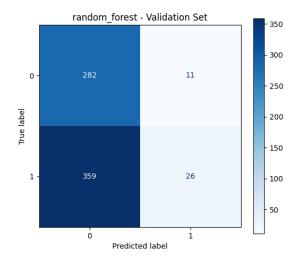
Top 8 Features	Importance	Bottom 5 Features	Importance
trailing_team_corners_for_avg	0.12411	trailing_team_sending_off_pre80	0.01243
leading_team_corners_against_avg	0.11609	is_home_trailing	0.01467
leading_team_post80_corners_against_avg	0.11427	leading_team_corners_75_80	0.01553
trailing_team_post80_corners_for_avg	0.11373	trailing_team_corners_70_75	0.01650
trailing_team_shots_pre80	0.08490	leading_team_corners_70_75	0.01686
trailing_team_fouls_pre80	0.07849		
trailing_team_corners_pre80	0.06789		
trailing_team_yellow_cards_pre80	0.04830		

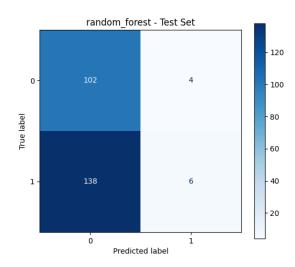
Optimal Threshold

• Optimal threshold: 0.74

• Expected Precision: 0.703

• Expected Recall: 0.068





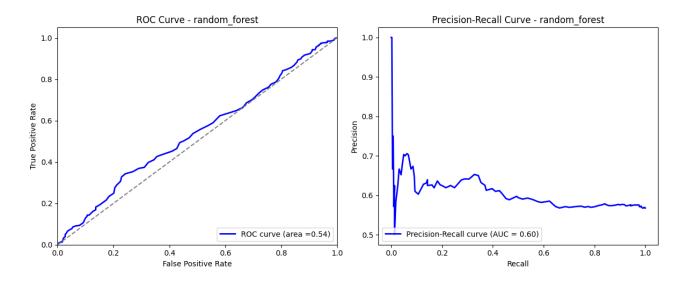
	precision	recall	f1-score	support
0	0.44	0.96	0.60	293
1	0.70	0.07	0.12	385
accuracy			0.45	678

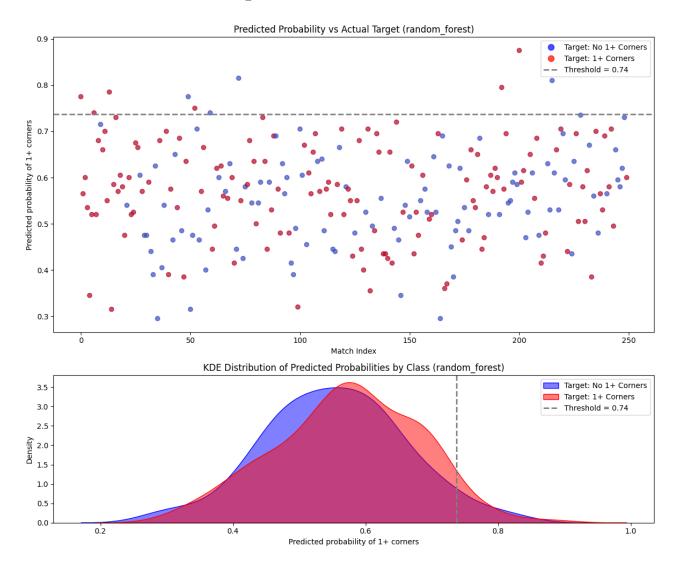
macro avg 0.57 0.51 0.36 678 weighted avg 0.59 0.45 0.33 678

Classification Report (Test Set)

	precision	recall	f1-score	support
0	0.42	0.96	0.59	106
1	0.60	0.04	0.08	144
accuracy			0.43	250

macro avg 0.51 0.50 0.33 250 weighted avg 0.53 0.43 0.29 250





--- Overall Summary ---

illimitial Bankroll: £1000.00

š Final Bankroll: £789.67

Total Staked: £636.09

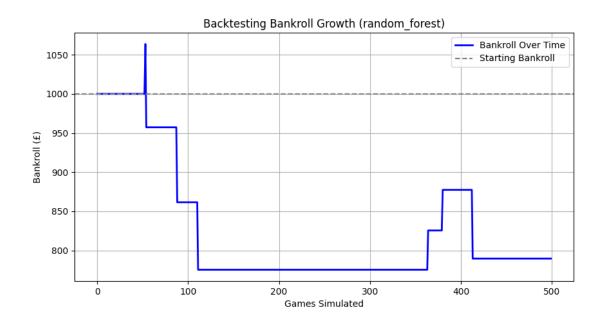
✓ Total Profit: £-210.33

■ ROI: -21.03%

▼ Win rate: 42.86% over 7 bets

► Sharpe Ratio: -0.34

© Edge Over Bookies: -17.33%



logistic_regression Model

Feature Importance

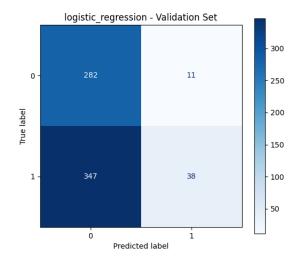
Top 8 Features	Importance	Bottom 5 Features	Importance
trailing_team_shots_pre80	1.18654	trailing_team_sending_off_pre80	-0.81453
trailing_team_corners_for_avg	1.11504	leading_team_shots_75_80	-0.65217
leading_team_post80_corners_against_avg	1.00804	trailing_team_fouls_pre80	-0.47780
trailing_team_corners_pre80	0.53272	trailing_team_corners_75_80	-0.34660
trailing_team_yellow_cards_pre80	0.28305	leading_team_corners_75_80	-0.33903
trailing_team_corners_70_75	0.19493		
trailing_team_shots_75_80	0.16530		
leading_team_corners_against_avg	0.13120		

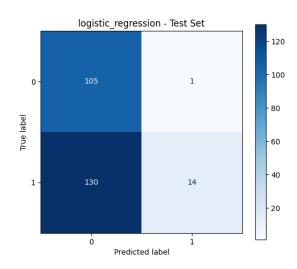
Optimal Threshold

• Optimal threshold: 0.67

• Expected Precision: 0.776

• Expected Recall: 0.099





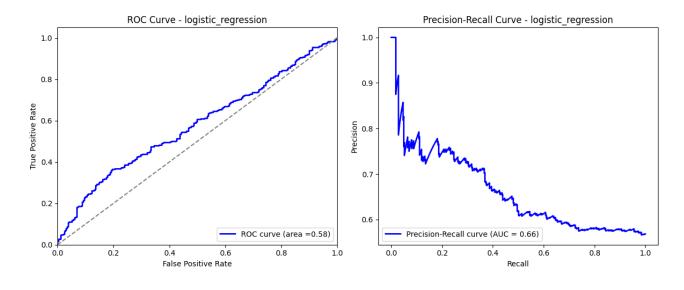
	precision	recall	f1-score	support
0	0.45	0.96	0.61	293
1	0.78	0.10	0.18	385
accuracy			0.47	678

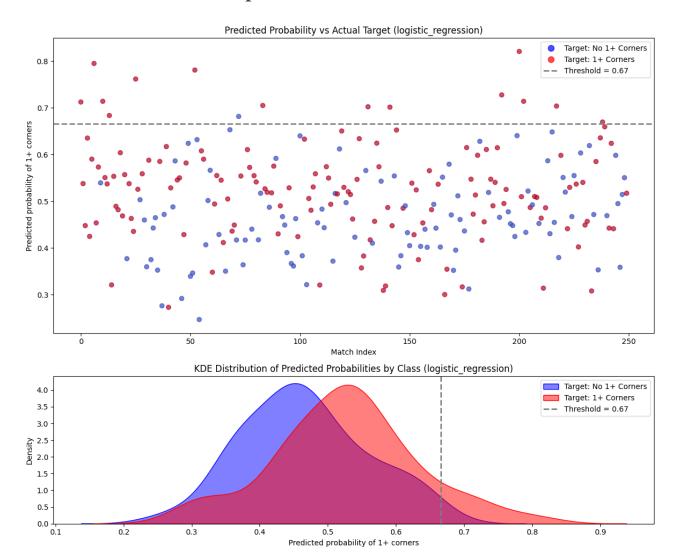
macro avg 0.61 0.53 0.39 678 weighted avg 0.63 0.47 0.36 678

Classification Report (Test Set)

	precision	recall	f1-score	support
0	0.45	0.99	0.62	106
1	0.93	0.10	0.18	144
accuracy			0.48	250

macro avg 0.69 0.54 0.40 250 weighted avg 0.73 0.48 0.36 250





--- Overall Summary ---

Initial Bankroll: £1000.00
Initial Bankroll: £1579.49
Initial Bankroll: £1579.49

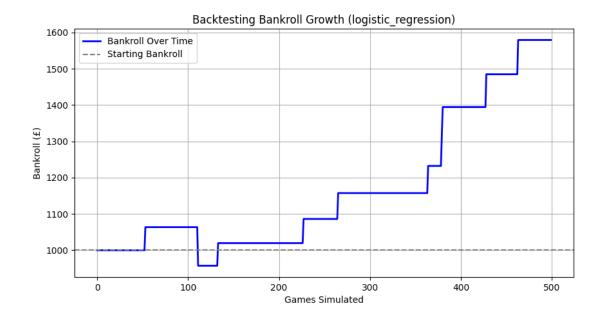
✓ Total Profit: £579.49

■ ROI: 57.95%

▼ Win rate: 90.00% over 10 bets

Nampe Ratio: 0.92 Name of the Name of the

© Edge Over Bookies: 29.81%



svc Model

Feature Importance

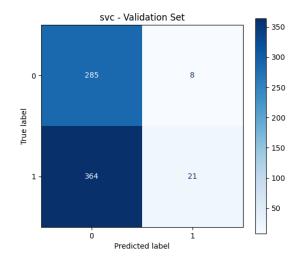
Top 8 Features	Importance	Bottom 5 Features	Importance
is_home_trailing	0.00000	leading_team_post80_corners_against_avg	0.00000
leading_team_corners_75_80	0.00000	trailing_team_fouls_pre80	0.00000
trailing_team_post80_corners_for_avg	0.00000	trailing_team_corners_pre80	0.00000
leading_team_corners_against_avg	0.00000	trailing_team_yellow_cards_pre80	0.00000
trailing_team_corners_for_avg	0.00000	trailing_team_sending_off_pre80	0.00000
league_avg_corners	0.00000		
trailing_team_shots_75_80	0.00000		
leading_team_shots_75_80	0.00000		

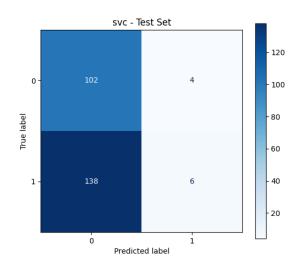
Optimal Threshold

• Optimal threshold: 0.71

• Expected Precision: 0.724

• Expected Recall: 0.055





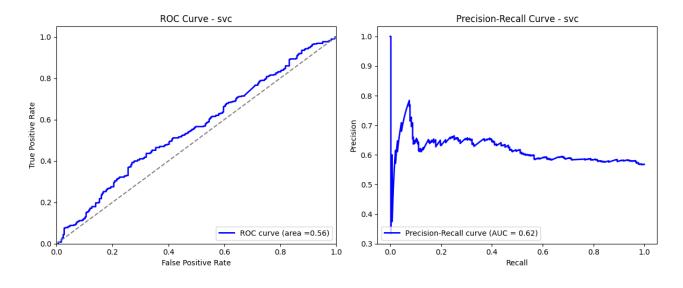
	precision	recall	f1-score	support
0	0.44	0.97	0.61	293
1	0.72	0.05	0.10	385
accuracy			0.45	678

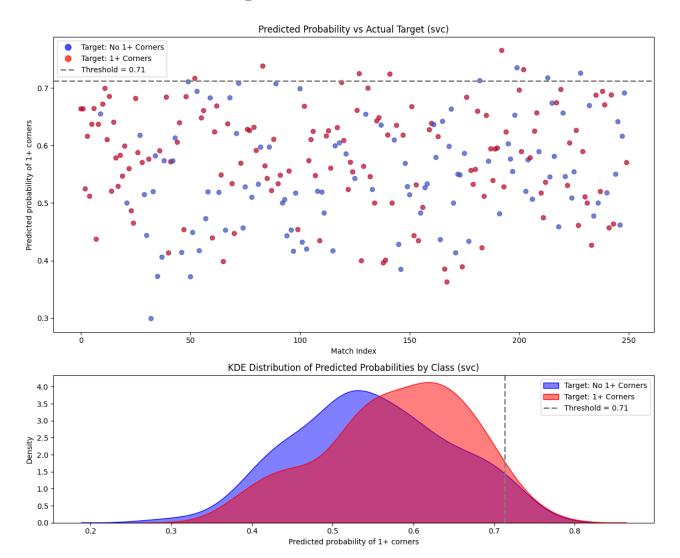
macro avg 0.58 0.51 0.35 678 weighted avg 0.60 0.45 0.32 678

Classification Report (Test Set)

	precision	recall	f1-score	support
0	0.42	0.96	0.59	106
1	0.60	0.04	0.08	144
accuracy			0.43	250

macro avg 0.51 0.50 0.33 250 weighted avg 0.53 0.43 0.29 250





--- Overall Summary ---

illimitial Bankroll: £1000.00

§ Final Bankroll: £956.30

▼ Total Staked: £1143.02

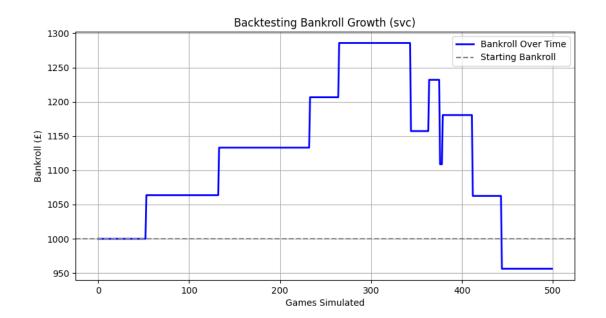
✓ Total Profit: £-43.70

■ ROI: -4.37%

▼ Win rate: 60.00% over 10 bets

► Sharpe Ratio: -0.01

© Edge Over Bookies: -0.19%



xgboost Model

Feature Importance

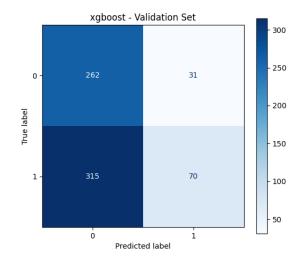
Top 8 Features	Importance	Bottom 5 Features	Importance
trailing_team_shots_pre80	0.10686	trailing_team_corners_70_75	0.03024
trailing_team_corners_pre80	0.06324	trailing_team_corners_75_80	0.03764
trailing_team_corners_for_avg	0.06255	leading_team_corners_70_75	0.03989
leading_team_post80_corners_against_avg	0.05814	leading_team_corners_75_80	0.04050
leading_team_shots_75_80	0.05800	trailing_team_yellow_cards_pre80	0.04229
trailing_team_sending_off_pre80	0.05795		
trailing_team_shots_70_75	0.05478		
is_home_trailing	0.05421		

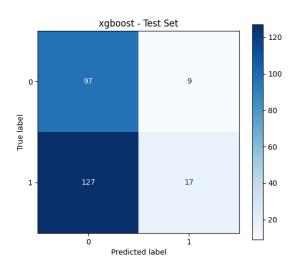
Optimal Threshold

• Optimal threshold: 0.69

• Expected Precision: 0.690

• Expected Recall: 0.179





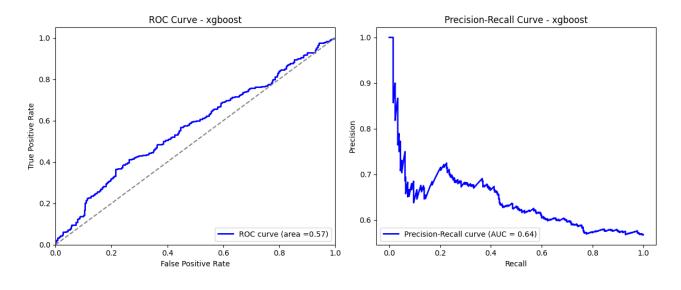
	precision	recall	f1-score	support
0	0.45	0.89	0.60	293
1	0.69	0.18	0.29	385
accuracy			0.49	678

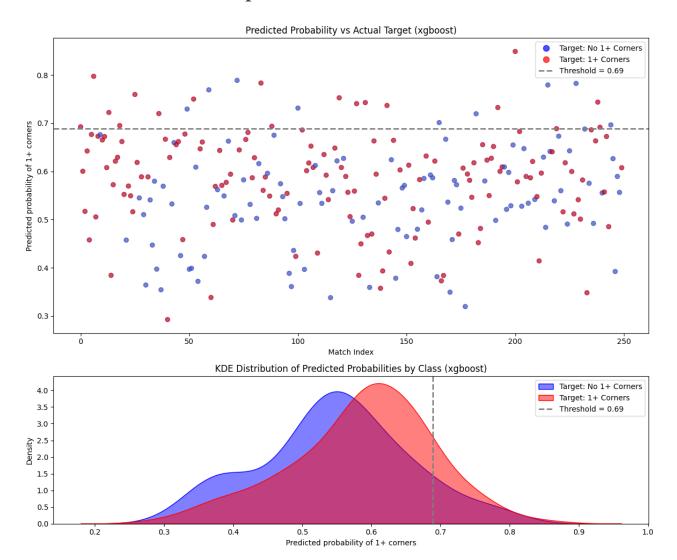
macro avg 0.57 0.54 0.45 678 weighted avg 0.59 0.49 0.42 678

Classification Report (Test Set)

	precision	recall	f1-score	support
0	0.43	0.92	0.59	106
1	0.65	0.12	0.20	144
accuracy			0.46	250

macro avg 0.54 0.52 0.39 250 weighted avg 0.56 0.46 0.36 250





--- Overall Summary ---

illimitial Bankroll: £1000.00

\$ Final Bankroll: £824.69
* Total Staked: £1990.93

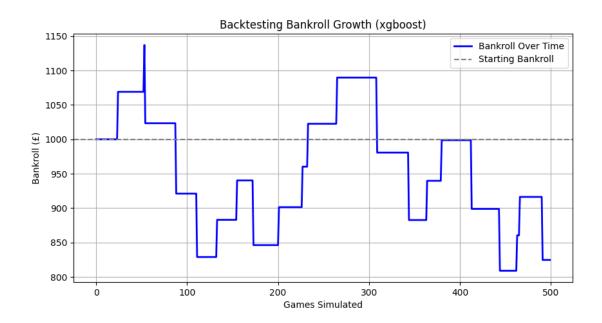
✓ Total Profit: £-175.31

■ ROI: -17.53%

▼ Win rate: 57.14% over 21 bets

► Sharpe Ratio: -0.07

© Edge Over Bookies: -3.05%



Backtesting Results Summary

