Model Training Report: Track 1

Configuration Details

Target Variable

target

Selected Features

```
goal_diff_80, home_shots_pre80, away_shots_pre80, home_fouls_pre80, away_fouls_pre80, home_corners_pre80, away_corners_pre80, home_yellow_cards_pre80, away_yellow_cards_pre80, home_sending_off_pre80, away_sending_off_pre80, home_corners_70_75, away_corners_70_75, home_shots_70_75, away_shots_70_75, home_corners_75_80, away_corners_75_80, home_shots_75_80, away_shots_75_80, odd_h, odd d, odd a
```

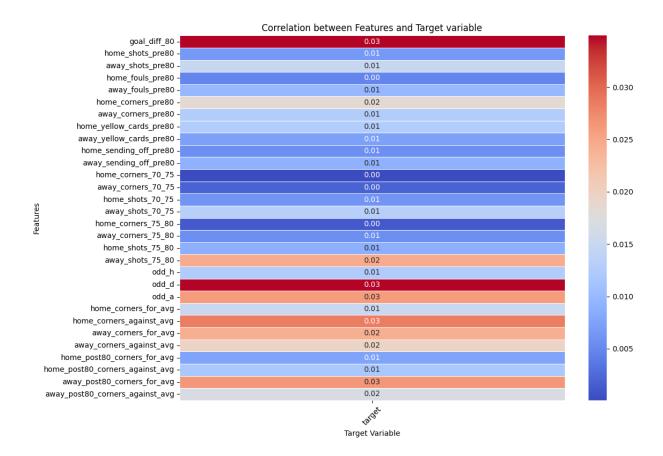
Constructed Features

```
home_corners_for_avg, home_corners_against_avg, away_corners_for_avg, away_corners_against_avg, home_post80_corners_for_avg, home_post80_corners_against_avg, away_post80_corners_for_avg, away_post80_corners_against_avg
```

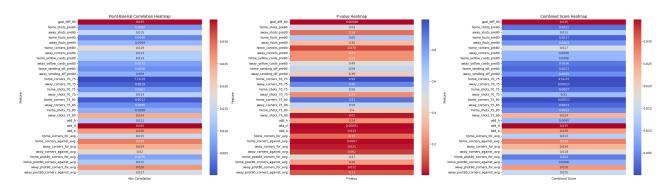
Models Trained (& Hyperparameters)

```
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}
```

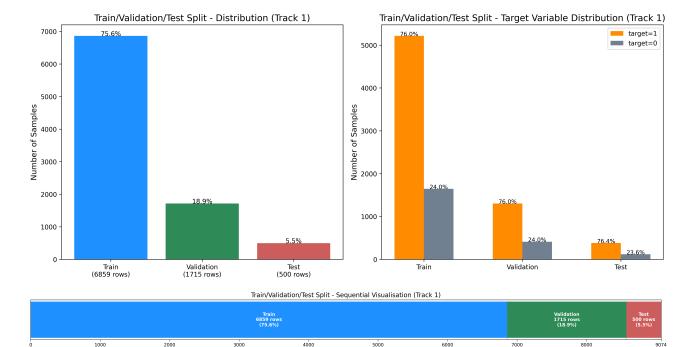
Feature Correlation



Point-Biserial Correlation



Dataset Train/Validation/Test Split Visualisation



Target=1: 76.0% Target=0: 24.0% Target=1: 76.4% Target=0: 23.6%

Target=1: 76.0% Target=0: 24.0%

random_forest Model

Feature Importance

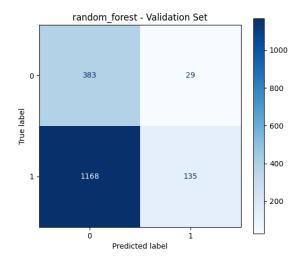
Top 8 Features	Importance	Bottom 5 Features	Importance
home_corners_against_avg	0.05962	home_sending_off_pre80	0.00403
away_post80_corners_for_avg	0.05762	away_sending_off_pre80	0.00557
away_corners_for_avg	0.05713	away_corners_70_75	0.00751
away_corners_against_avg	0.05665	away_corners_75_80	0.00789
home_corners_for_avg	0.05635	home_corners_70_75	0.00839
home_post80_corners_for_avg	0.05587		
home_post80_corners_against_avg	0.05500		
away_post80_corners_against_avg	0.05479		

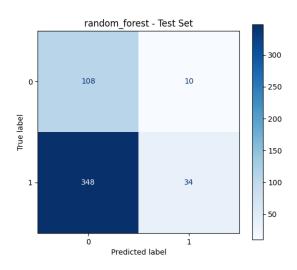
Optimal Threshold

• Optimal threshold: 0.83

• Expected Precision: 0.823

• Expected Recall: 0.104





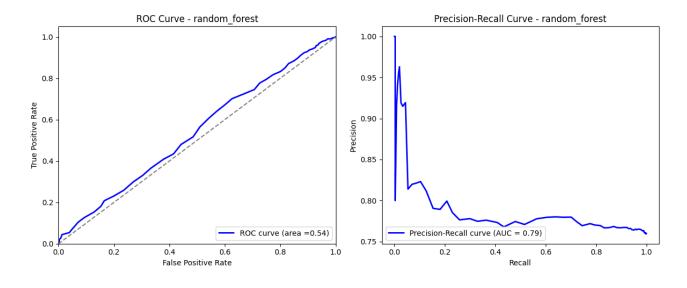
	precision	recall	f1-score	support
0	0.25	0.93	0.39	412
1	0.82	0.10	0.18	1303
accuracy			0.30	1715

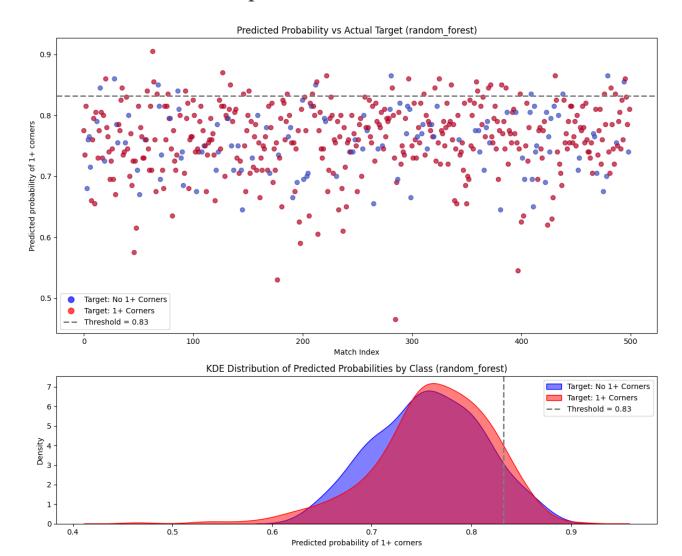
macro avg 0.54 0.52 0.29 1715 weighted avg 0.68 0.30 0.23 1715

Classification Report (Test Set)

	precision	recall	f1-score	support
0	0.24	0.92	0.38	118
1	0.77	0.09	0.16	382
accuracy			0.28	500

macro avg 0.50 0.50 0.27 500 weighted avg 0.65 0.28 0.21 500





--- Overall Summary ---

illimitial Bankroll: £1000.00

§ Final Bankroll: £866.98

Fotal Staked: £4093.03

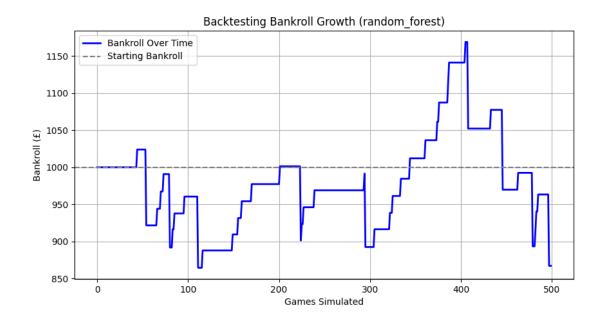
✓ Total Profit: £-133.02

■ ROI: -13.30%

▼ Win rate: 78.57% over 42 bets

► Sharpe Ratio: -0.04

© Edge Over Bookies: -1.20%



logistic_regression Model

Feature Importance

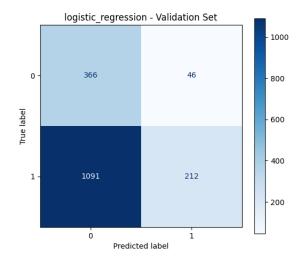
Top 8 Features	Importance	Bottom 5 Features	Importance
away_corners_against_avg	0.54319	goal_diff_80	-0.78387
away_post80_corners_for_avg	0.51372	odd_h	-0.64380
away_shots_75_80	0.42683	odd_d	-0.53019
home_corners_for_avg	0.40431	odd_a	-0.34382
home_corners_against_avg	0.27775	away_shots_70_75	-0.30718
away_corners_for_avg	0.24780		
home_corners_pre80	0.24122		
home_shots_75_80	0.20315		

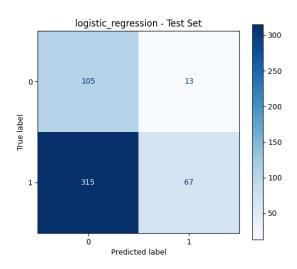
Optimal Threshold

• Optimal threshold: 0.55

• Expected Precision: 0.821

• Expected Recall: 0.162





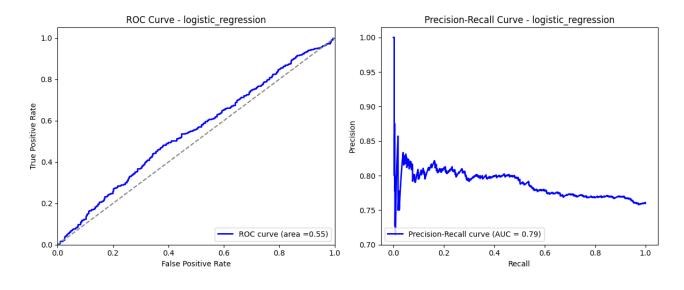
	precision	recall	f1-score	support
0	0.25	0.80	0.30	412
0	0.25	0.89	0.39	412
1	0.82	0.16	0.27	1303
accuracy			0.34	1715

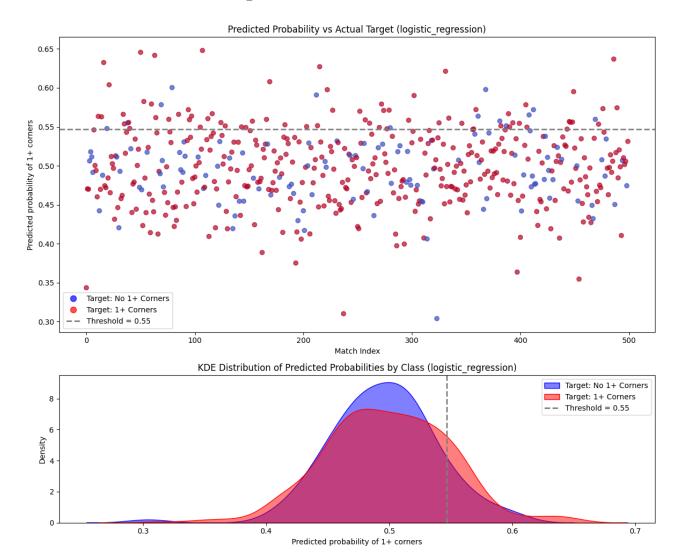
macro avg 0.54 0.53 0.33 1715 weighted avg 0.68 0.34 0.30 1715

Classification Report (Test Set)

	precision	recall	f1-score	support
0	0.25	0.89	0.39	118
1	0.84	0.18	0.29	382
accuracy			0.34	500

macro avg 0.54 0.53 0.34 500 weighted avg 0.70 0.34 0.31 500





--- Overall Summary ---

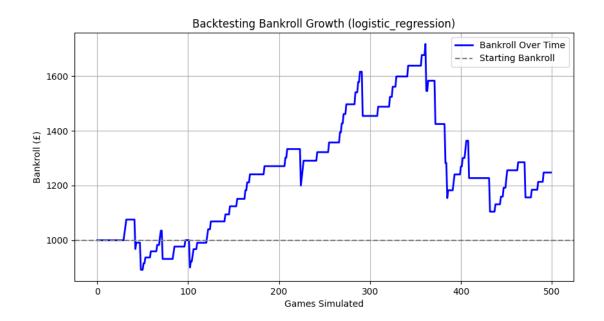
Initial Bankroll: £1000.00
Initial Bankroll: £1247.32
Initial Bankroll: £9531.86
Initial Bankroll: £247.32

■ ROI: 24.73%

▼ Win rate: 83.33% over 78 bets

➤ Sharpe Ratio: 0.08

© Edge Over Bookies: 3.56%



svc Model

Feature Importance

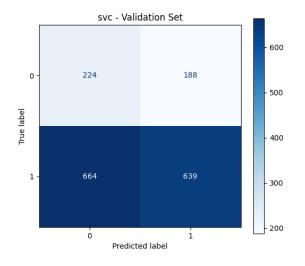
Top 8 Features	Importance	Bottom 5 Features	Importance
goal_diff_80	0.00000	away_post80_corners_against_avg	0.00000
home_shots_pre80	0.00000	away_shots_pre80	0.00000
away_post80_corners_for_avg	0.00000	home_fouls_pre80	0.00000
home_post80_corners_against_avg	0.00000	away_fouls_pre80	0.00000
home_post80_corners_for_avg	0.00000	home_corners_pre80	0.00000
away_corners_against_avg	0.00000		
away_corners_for_avg	0.00000		
home_corners_against_avg	0.00000		

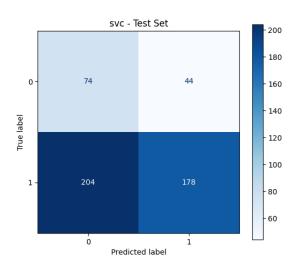
Optimal Threshold

• Optimal threshold: 0.76

• Expected Precision: 0.775

• Expected Recall: 0.515





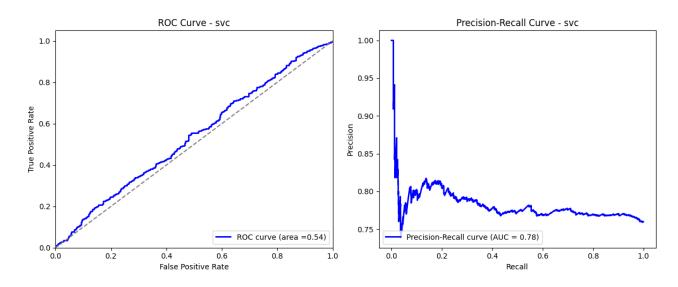
	precision	recall	f1-score	support
0	0.25	0.54	0.34	412
0	0.23	0.54	0.34	412
1	0.77	0.49	0.60	1303
accuracy			0.50	1715

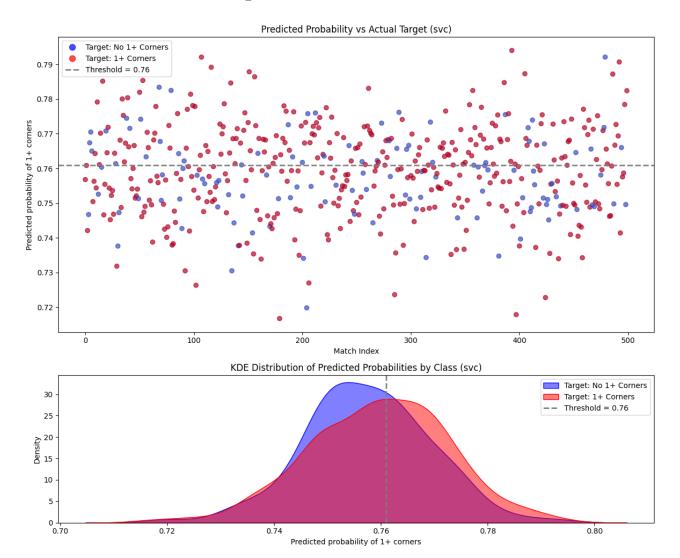
macro avg 0.51 0.52 0.47 1715 weighted avg 0.65 0.50 0.54 1715

Classification Report (Test Set)

	precision	recall	f1-score	support
0	0.27	0.63	0.37	118
1	0.80	0.47	0.59	382
accuracy			0.50	500

macro avg 0.53 0.55 0.48 500 weighted avg 0.68 0.50 0.54 500





--- Overall Summary ---

illimitial Bankroll: £1000.00

\$ Final Bankroll: £817.57
* Total Staked: £16136.22

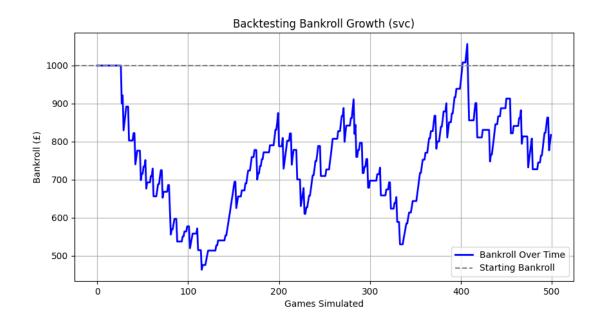
✓ Total Profit: £-182.43

■ ROI: -18.24%

▼ Win rate: 80.28% over 218 bets

Nampe Ratio: 0.01 Name of the Name of the

© Edge Over Bookies: 0.50%



xgboost Model

Feature Importance

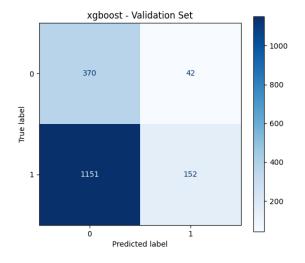
Top 8 Features	Importance	Bottom 5 Features	Importance
away_sending_off_pre80	0.05806	home_corners_75_80	0.00000
odd_h	0.04447	home_sending_off_pre80	0.00000
goal_diff_80	0.04267	away_corners_75_80	0.00000
away_corners_for_avg	0.04081	home_yellow_cards_pre80	0.02579
home_post80_corners_against_avg	0.04058	away_yellow_cards_pre80	0.02814
away_post80_corners_against_avg	0.04019		
odd_a	0.03989		
away_corners_against_avg	0.03984		

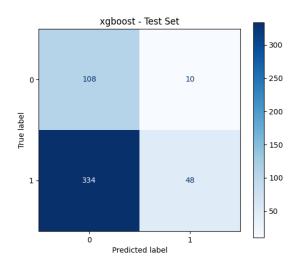
Optimal Threshold

• Optimal threshold: 0.81

• Expected Precision: 0.784

• Expected Recall: 0.117





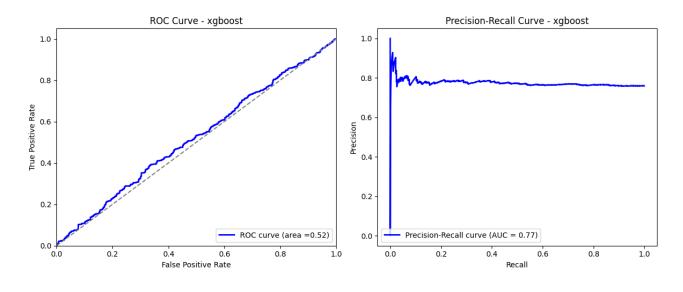
	precision	recall	f1-score	support
0	0.24	0.90	0.38	412
1	0.78	0.12	0.20	1303
accuracy			0.30	1715

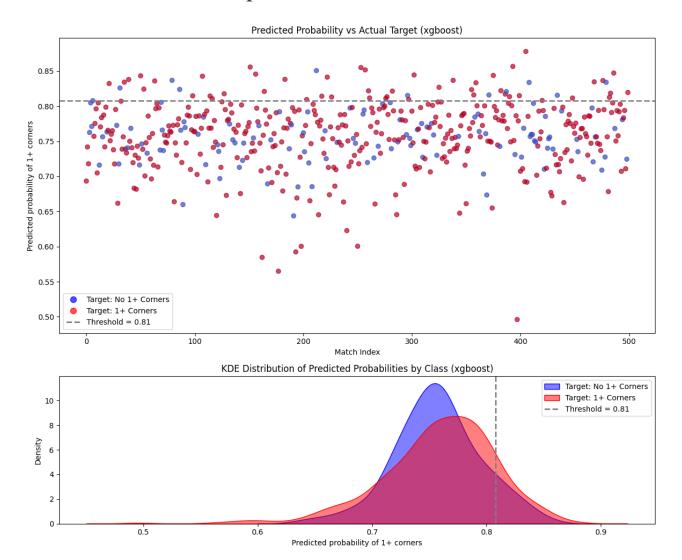
macro avg 0.51 0.51 0.29 1715 weighted avg 0.65 0.30 0.25 1715

Classification Report (Test Set)

	precision	recall	f1-score	support
0	0.24	0.92	0.39	118
1	0.83	0.13	0.22	382
accuracy			0.31	500

macro avg 0.54 0.52 0.30 500 weighted avg 0.69 0.31 0.26 500





--- Overall Summary ---

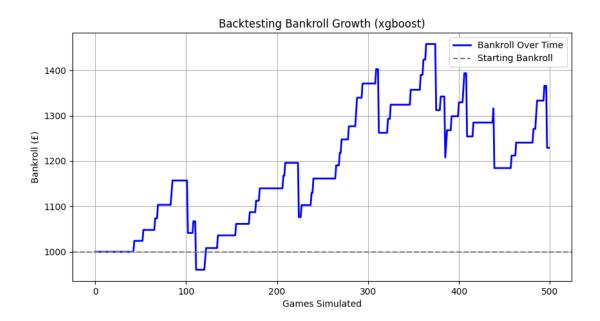
initial Bankroll: £1000.00
in Final Bankroll: £1229.07
in Total Staked: £6924.50
In Total Profit: £229.07

■ ROI: 22.91%

▼ Win rate: 84.21% over 57 bets

► Sharpe Ratio: 0.10

© Edge Over Bookies: 4.44%



Backtesting Results Summary

