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
```

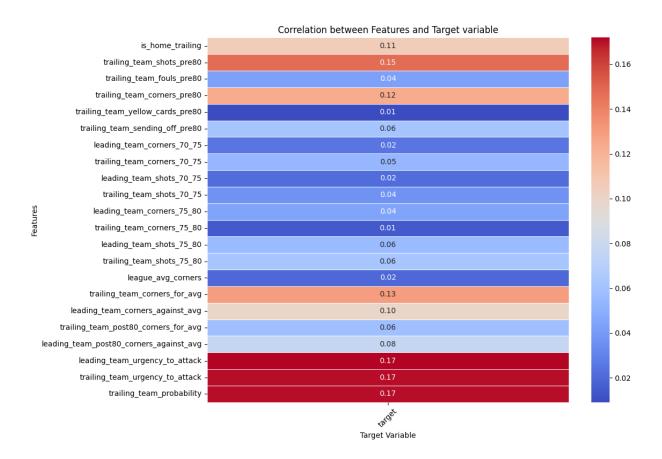
Constructed Features

```
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, leading_team_urgency_to_attack,
trailing team urgency to attack, trailing team probability
```

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}
```

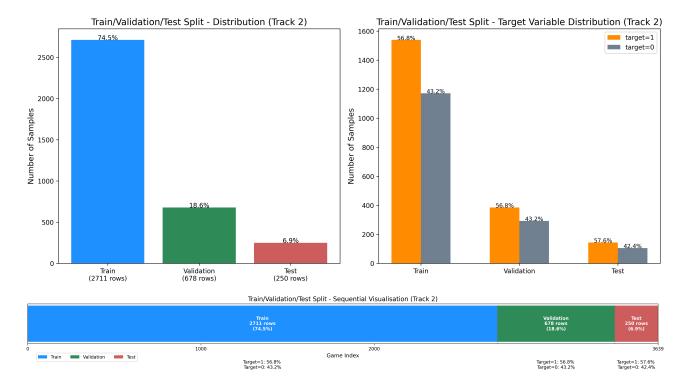
Feature Correlation



Point-Biserial Correlation



Dataset Train/Validation/Test Split Visualisation



random_forest Model

Feature Importance

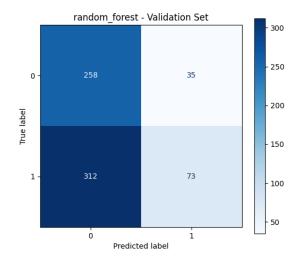
Top 8 Features	Importance	Bottom 5 Features	Importance
trailing_team_corners_for_avg	0.09211	trailing_team_sending_off_pre80	0.01062
leading_team_post80_corners_against_avg	0.08799	is_home_trailing	0.01088
leading_team_corners_against_avg	0.08687	leading_team_corners_70_75	0.01264
trailing_team_post80_corners_for_avg	0.08428	leading_team_corners_75_80	0.01284
leading_team_urgency_to_attack	0.08108	trailing_team_corners_70_75	0.01294
trailing_team_probability	0.07809		
trailing_team_urgency_to_attack	0.07716		
trailing_team_shots_pre80	0.06514		

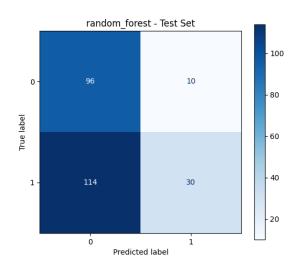
Optimal Threshold

• Optimal threshold: 0.69

• Expected Precision: 0.676

• Expected Recall: 0.190





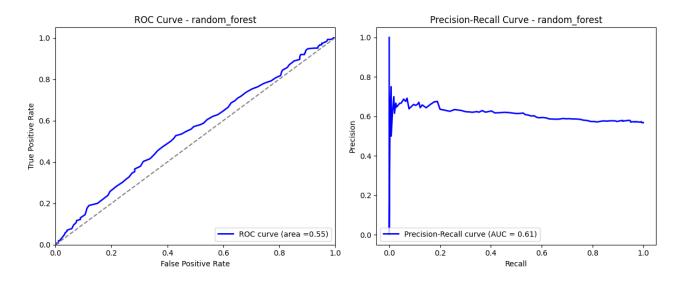
	precision	recall	f1-score	support
0	0.45	0.88	0.60	293
U	0.43	0.00	0.00	233
1	0.68	0.19	0.30	385
accuracy			0.49	678

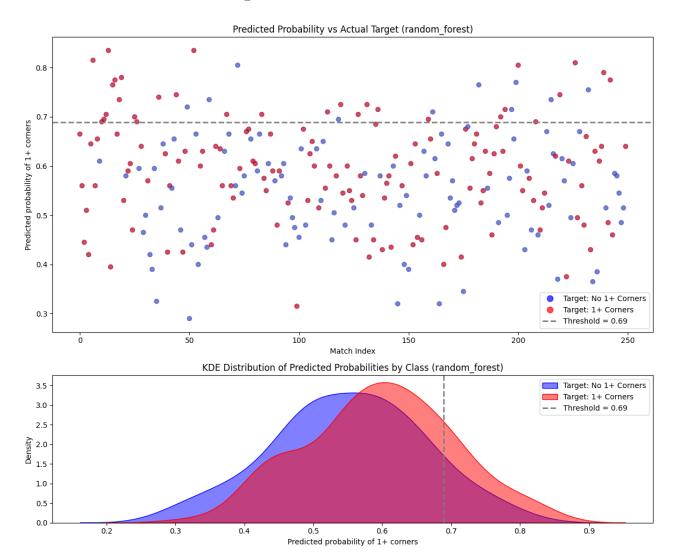
macro avg 0.56 0.54 0.45 678 weighted avg 0.58 0.49 0.43 678

Classification Report (Test Set)

	precision	recall	f1-score	support
0	0.46	0.91	0.61	106
1	0.75	0.21	0.33	144
accuracy			0.50	250

macro avg 0.60 0.56 0.47 250 weighted avg 0.63 0.50 0.45 250





--- Overall Summary ---

1 Initial Bankroll: £1000.00

§ Final Bankroll: £1080.75

Total Staked: £2978.22

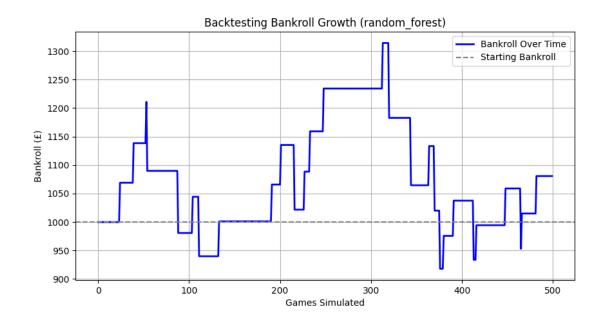
✓ Total Profit: £80.75

■ ROI: 8.07%

▼ Win rate: 64.29% over 28 bets

➤ Sharpe Ratio: 0.07

© Edge Over Bookies: 4.10%



logistic_regression Model

Feature Importance

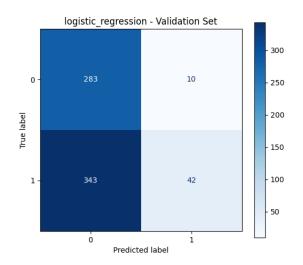
Top 8 Features	Importance	Bottom 5 Features	Importance
leading_team_post80_corners_against_avg	0.99292	leading_team_urgency_to_attack	-0.93857
trailing_team_corners_for_avg	0.92576	trailing_team_sending_off_pre80	-0.89286
trailing_team_shots_pre80	0.92378	leading_team_shots_75_80	-0.54443
trailing_team_corners_pre80	0.38503	trailing_team_fouls_pre80	-0.43672
trailing_team_yellow_cards_pre80	0.33106	trailing_team_corners_75_80	-0.31921
trailing_team_corners_70_75	0.21730		
trailing_team_shots_75_80	0.19720		
leading_team_shots_70_75	0.05570		

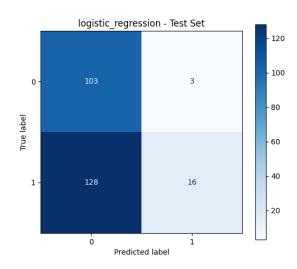
Optimal Threshold

• Optimal threshold: 0.67

• Expected Precision: 0.811

• Expected Recall: 0.112





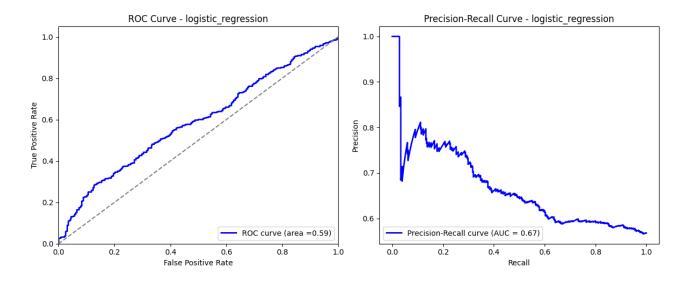
	precision	recall	f1-score	support
Θ	0.45	0.97	0.62	293
1	0.81	0.11	0.19	385
accuracy			0.48	678

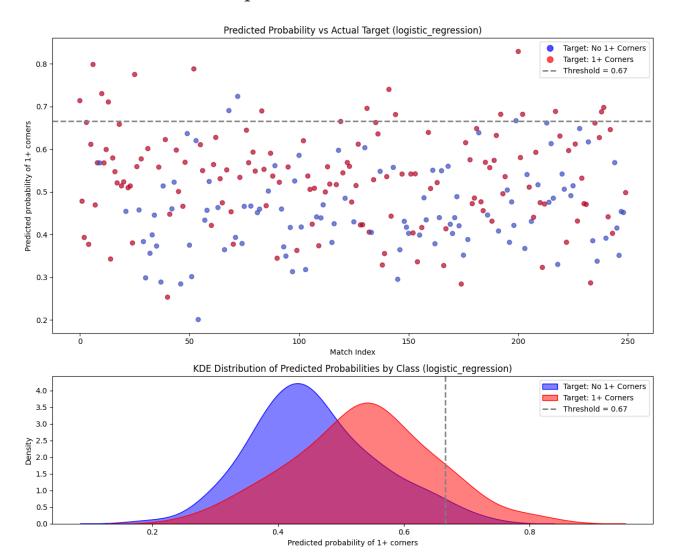
macro avg 0.63 0.54 0.40 678 weighted avg 0.65 0.48 0.38 678

Classification Report (Test Set)

	precision	recall	f1-score	support
0	0.45	0.97	0.61	106
1	0.84	0.11	0.20	144
accuracy			0.48	250

macro avg 0.64 0.54 0.40 250 weighted avg 0.67 0.48 0.37 250





--- Overall Summary ---

Initial Bankroll: £1000.00

Final Bankroll: £1448.98

Total Staked: £1514.03

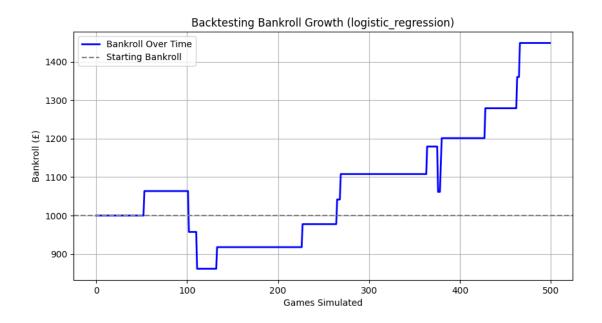
✓ Total Profit: £448.98

■ ROI: 44.90%

▼ Win rate: 78.57% over 14 bets

► Sharpe Ratio: 0.42

© Edge Over Bookies: 18.38%



svc Model

Feature Importance

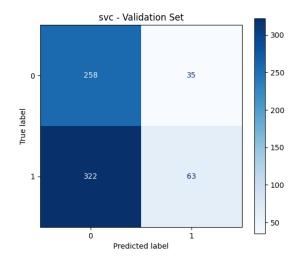
Top 8 Features	Importance	Bottom 5 Features	Importance
is_home_trailing	0.00000	trailing_team_probability	0.00000
trailing_team_shots_pre80	0.00000	trailing_team_fouls_pre80	0.00000
trailing_team_urgency_to_attack	0.00000	trailing_team_corners_pre80	0.00000
leading_team_urgency_to_attack	0.00000	trailing_team_yellow_cards_pre80	0.00000
leading_team_post80_corners_against_avg	0.00000	trailing_team_sending_off_pre80	0.00000
trailing_team_post80_corners_for_avg	0.00000		
leading_team_corners_against_avg	0.00000		
trailing_team_corners_for_avg	0.00000		

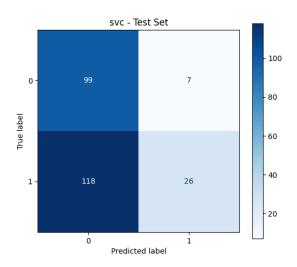
Optimal Threshold

• Optimal threshold: 0.69

• Expected Precision: 0.646

• Expected Recall: 0.161





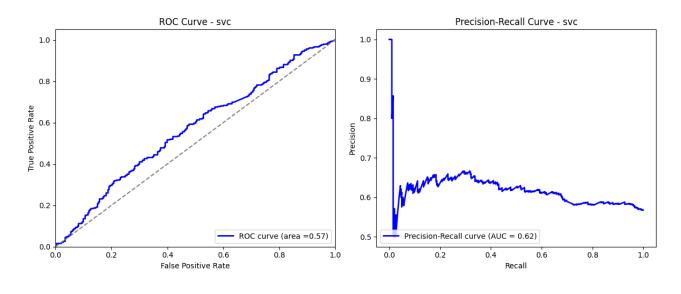
	precision	recall	f1-score	support
0	0.44	0.88	0.59	293
1	0.64	0.16	0.26	385
accuracy			0.47	678

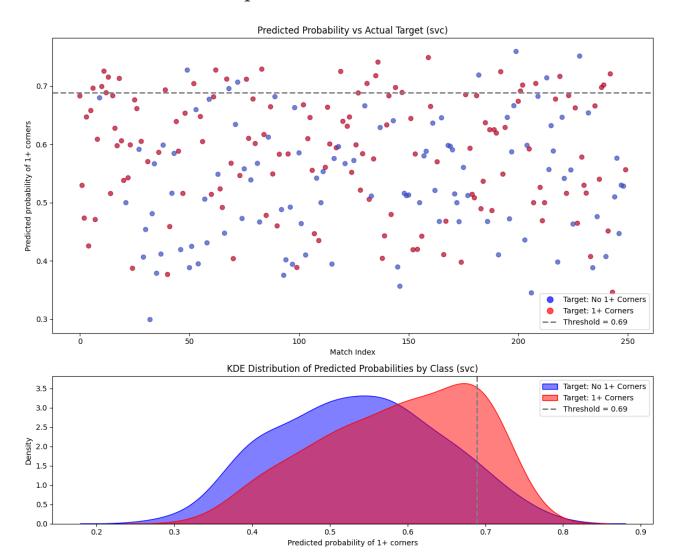
macro avg 0.54 0.52 0.43 678 weighted avg 0.56 0.47 0.40 678

Classification Report (Test Set)

	precision	recall	f1-score	support
0	0.46	0.93	0.61	106
1	0.79	0.18	0.29	144
accuracy			0.50	250

macro avg 0.62 0.56 0.45 250 weighted avg 0.65 0.50 0.43 250





--- Overall Summary ---

initial Bankroll: £1000.00

§ Final Bankroll: £1789.00

**** Total Staked:** £3724.18

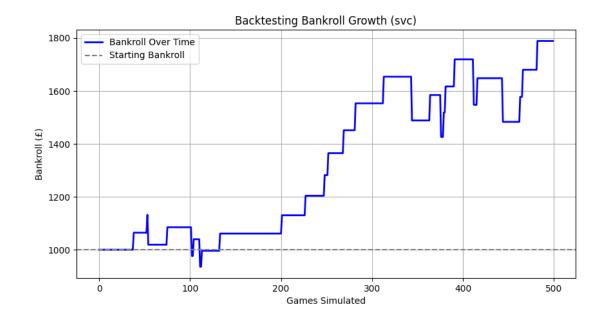
✓ Total Profit: £789.00

■ ROI: 78.90%

▼ Win rate: 75.00% over 28 bets

► Sharpe Ratio: 0.32

© Edge Over Bookies: 14.81%



xgboost Model

Feature Importance

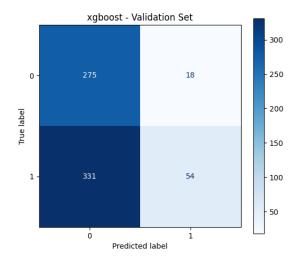
Top 8 Features	Importance	Bottom 5 Features	Importance
trailing_team_probability	0.13209	trailing_team_corners_70_75	0.02076
leading_team_urgency_to_attack	0.06645	leading_team_corners_70_75	0.03121
trailing_team_urgency_to_attack	0.06176	league_avg_corners	0.03136
trailing_team_shots_pre80	0.06009	leading_team_shots_75_80	0.03188
leading_team_corners_75_80	0.05568	leading_team_corners_against_avg	0.03320
trailing_team_corners_75_80	0.04960		
trailing_team_sending_off_pre80	0.04567		
trailing_team_corners_for_avg	0.04426		

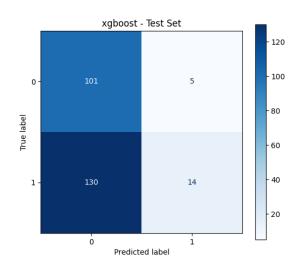
Optimal Threshold

• Optimal threshold: 0.71

• Expected Precision: 0.750

• Expected Recall: 0.140





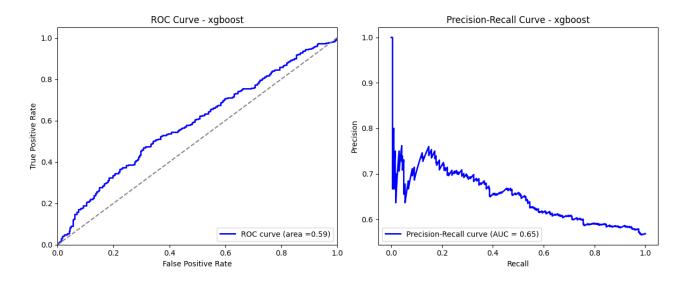
	precision	recall	f1-score	support
Θ	0.45	0.94	0.61	293
1	0.75	0.14	0.24	385
accuracy			0.49	678

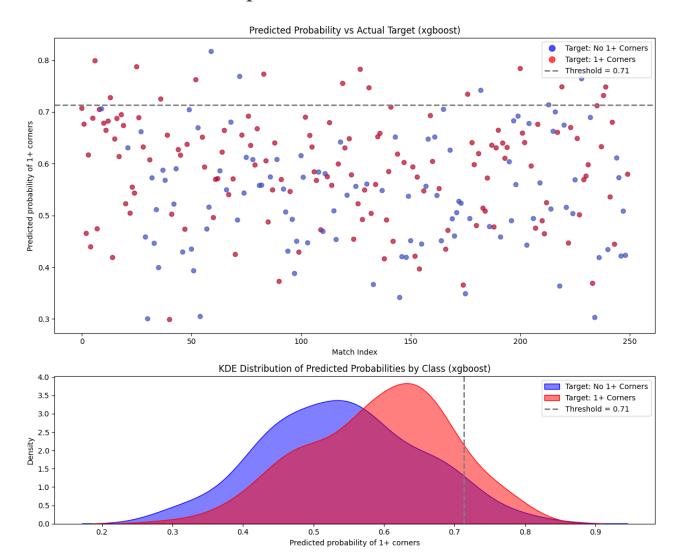
macro avg 0.60 0.54 0.42 678 weighted avg 0.62 0.49 0.40 678

Classification Report (Test Set)

	precision	recall	f1-score	support
0	0.44	0.95	0.60	106
1	0.74	0.10	0.17	144
accuracy			0.46	250

macro avg 0.59 0.53 0.39 250 weighted avg 0.61 0.46 0.35 250





--- Overall Summary ---

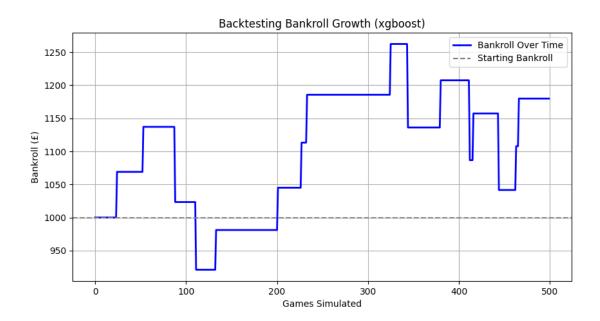
Initial Bankroll: £1000.00
Initial Bankroll: £1179.81
Initial Bankroll: £1179.81
Initial Bankroll: £1747.52
Initial Bankroll: £179.81

■ ROI: 17.98%

▼ Win rate: 68.75% over 16 bets

Nampe Ratio: 0.17 Name of the Name of the

© Edge Over Bookies: 8.56%



Backtesting Results Summary

