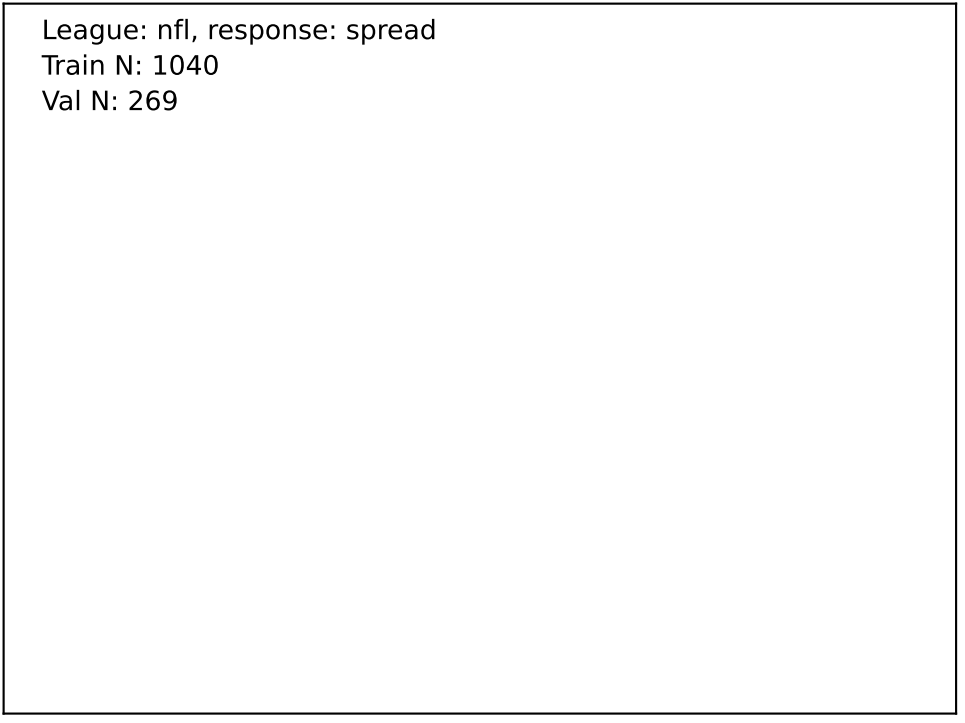
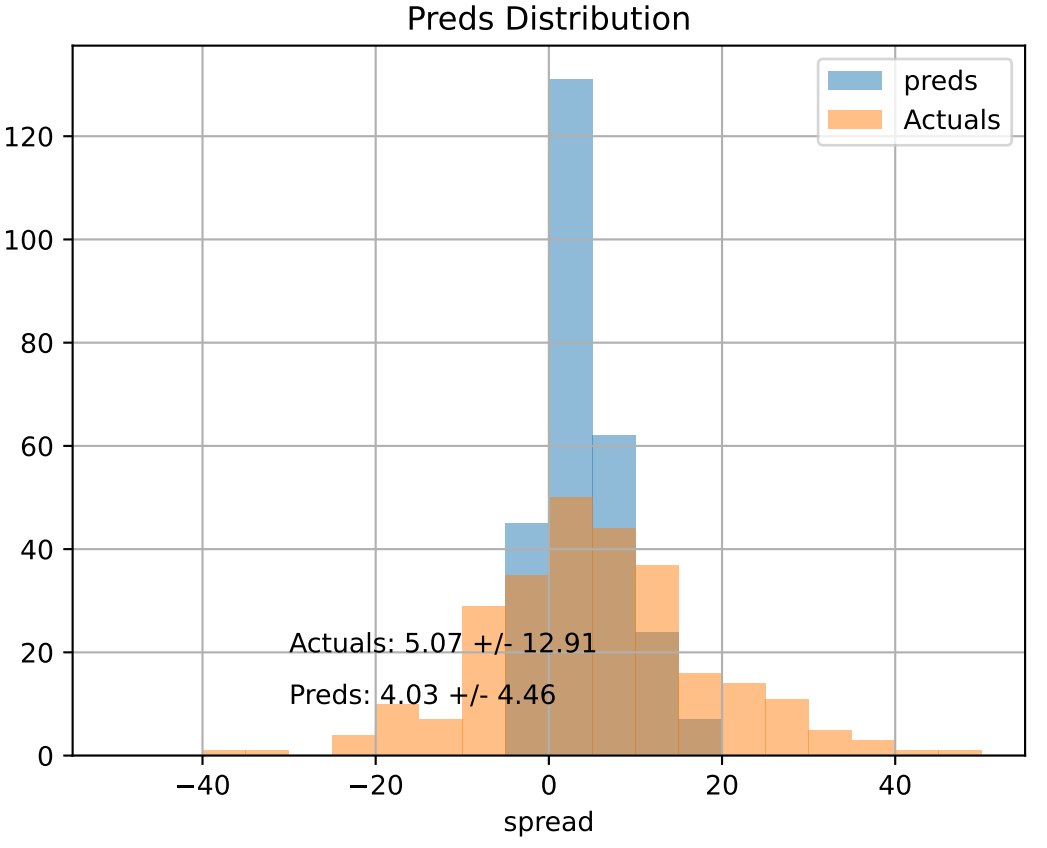
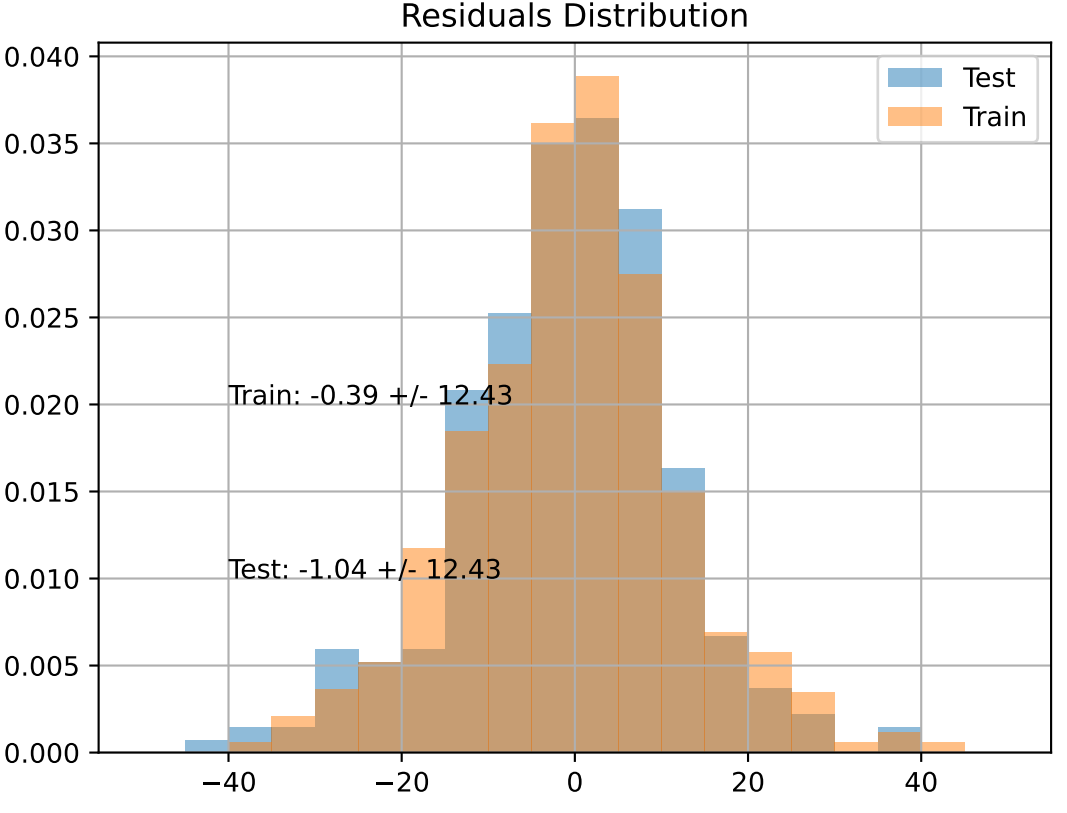
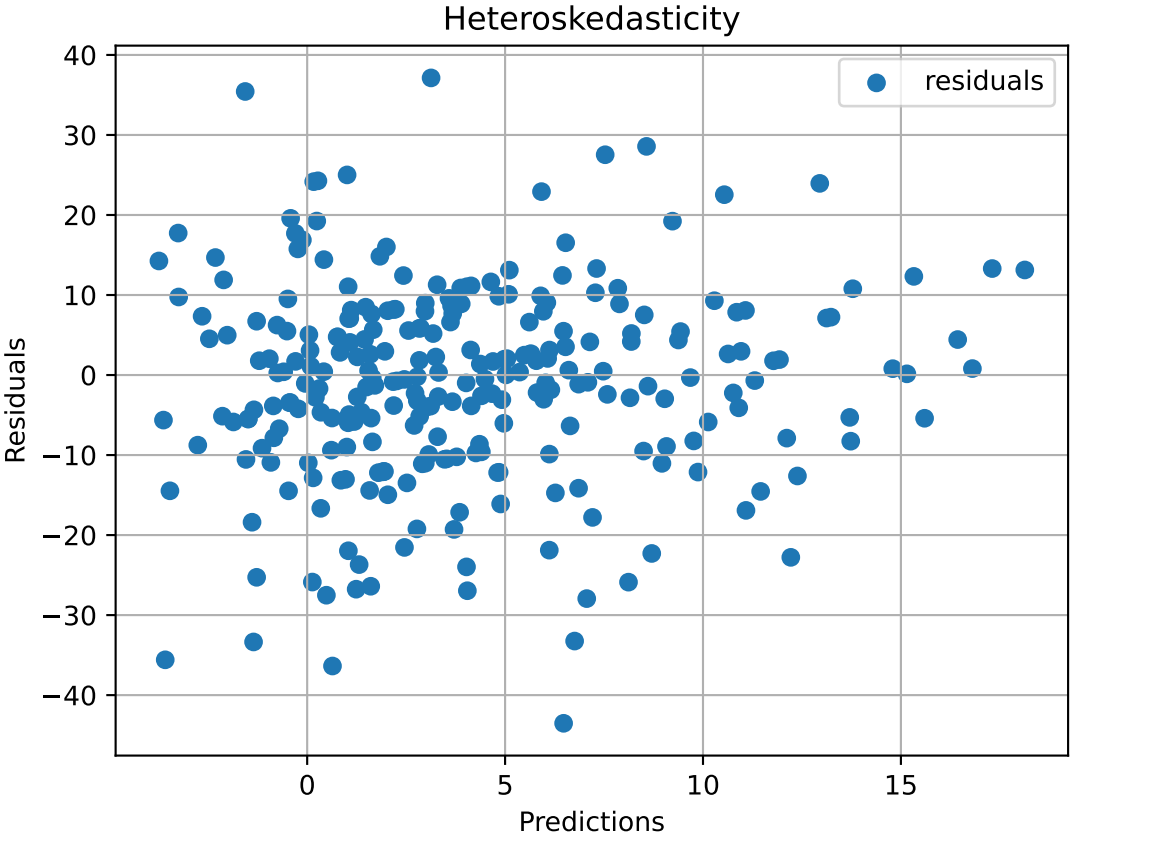
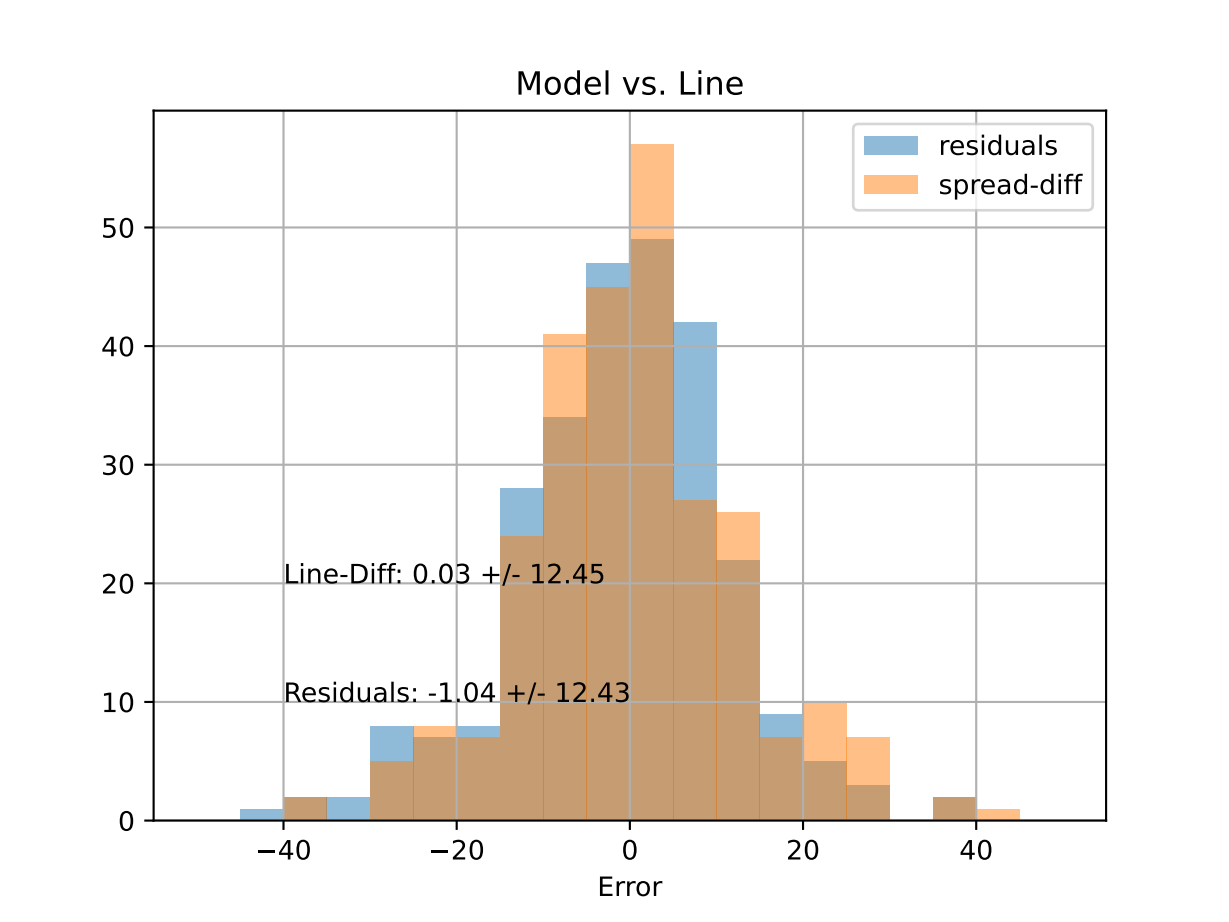
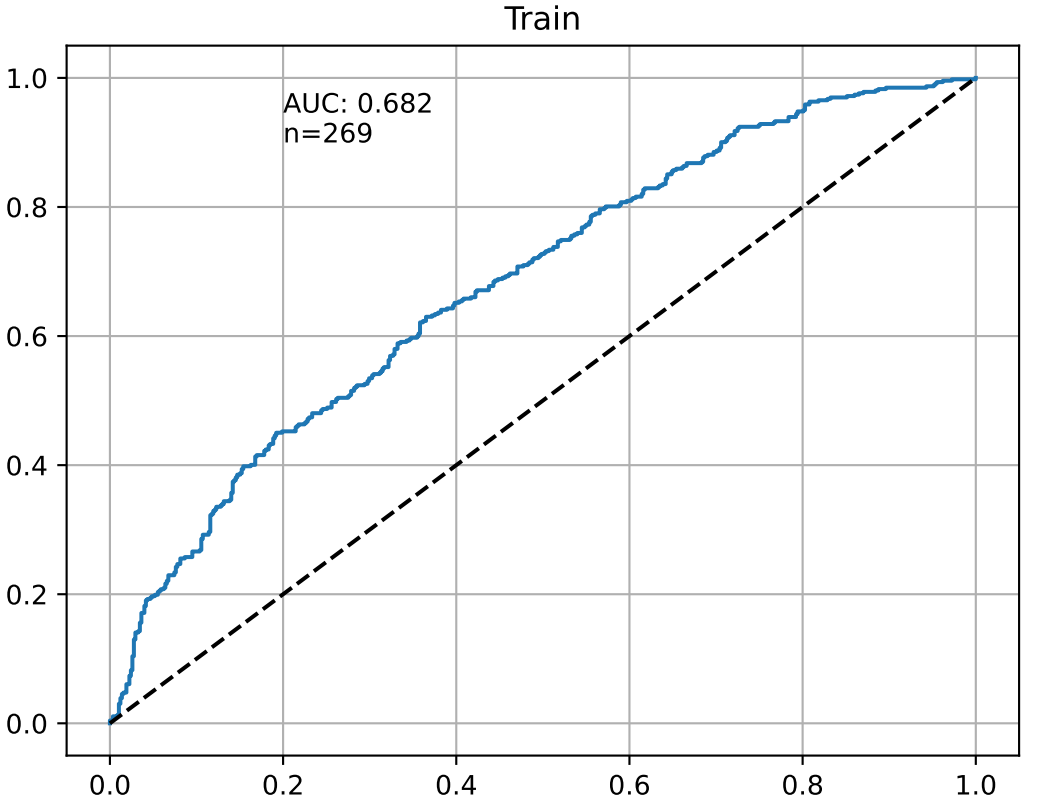

League: nfl, response: spread
Train N: 1040
Val N: 269

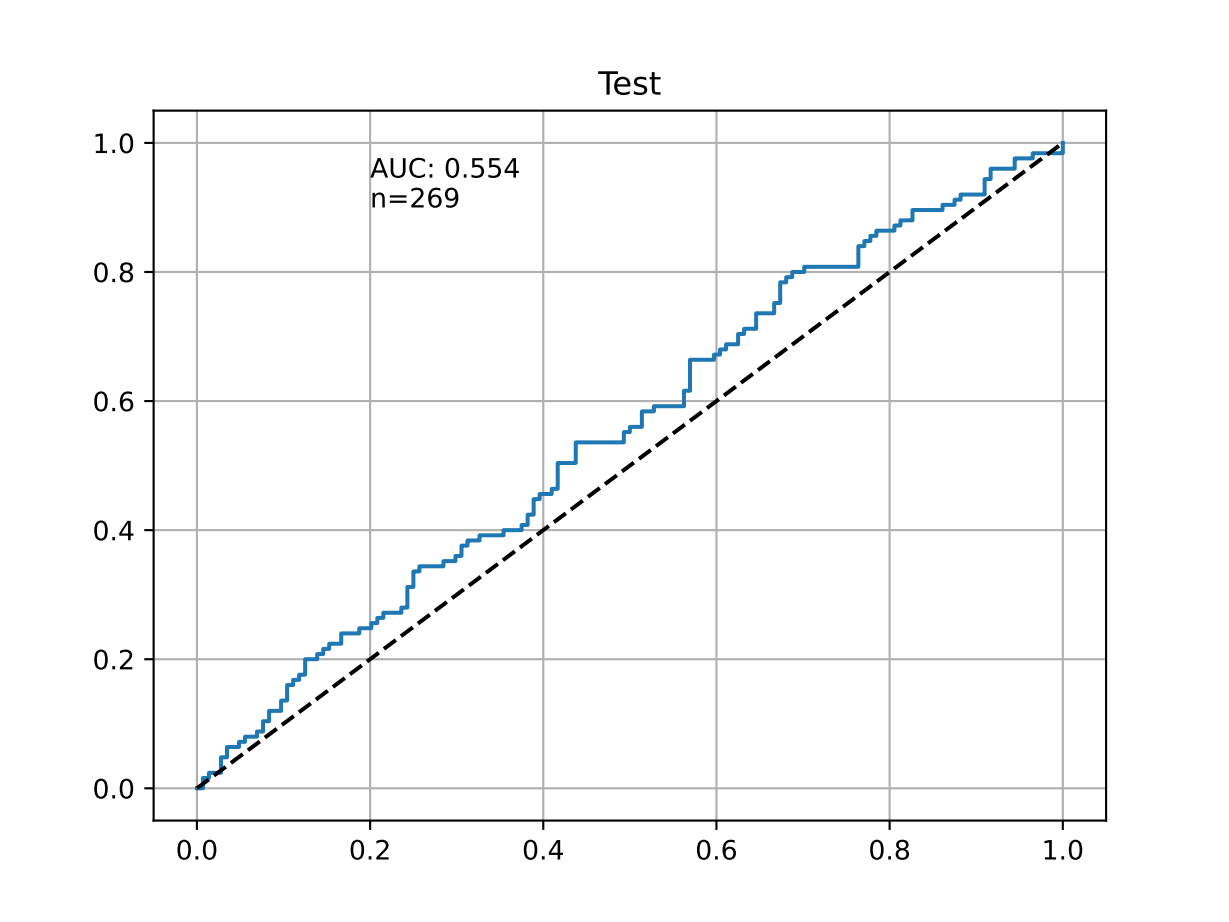

Preds Distribution
preds
Actuals
120
100
80
60
40
20
0
Actuals: 5.07 +/- 12.91
Preds: 4.03 +/- 4.46
−40
−20
0
20
40
spread

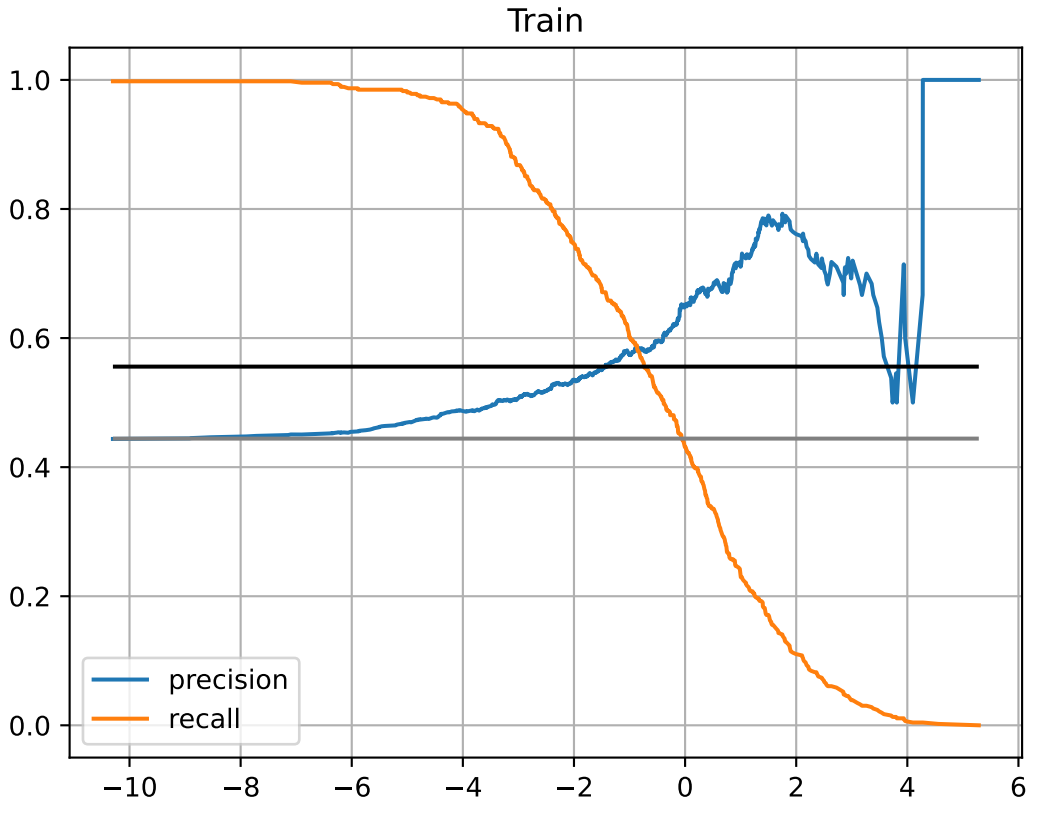

Residuals Distribution
Test
Train
Train: -0.39 +/- 12.43
Test: -1.04 +/- 12.43
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
−40
−20
0
20
40

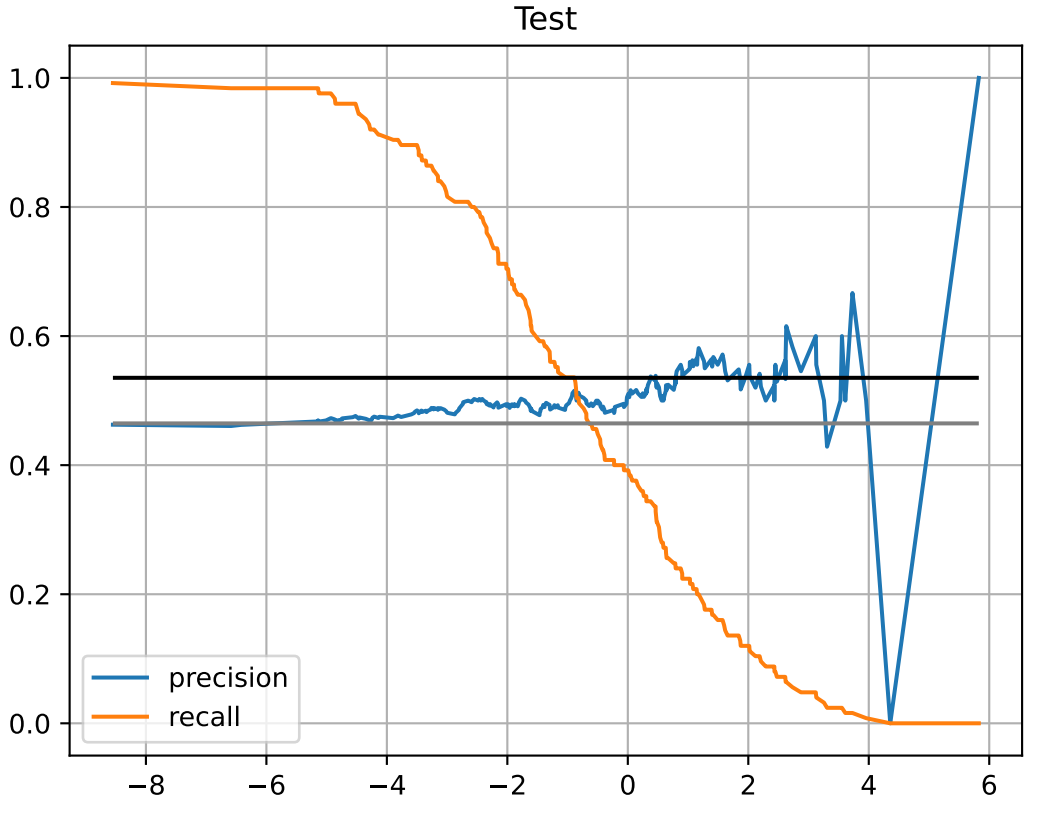

Heteroskedasticity
residuals
Residuals
Predictions
40
30
20
10
0
−10
−20
−30
−40
0
5
10
15

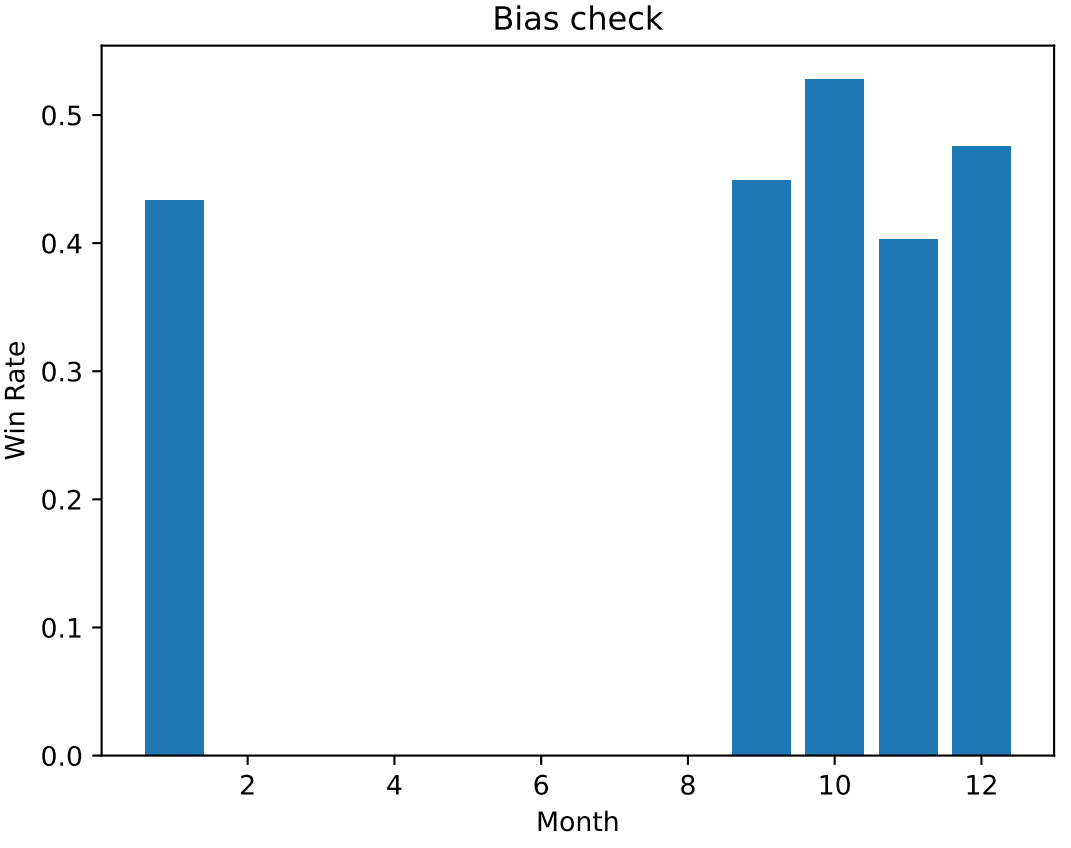

Model vs. Line
residuals
spread-diff
Line-Diff: 0.03 +/- 12.45
Residuals: -1.04 +/- 12.43
0
10
20
30
40
50
−40
−20
0
20
40
Error

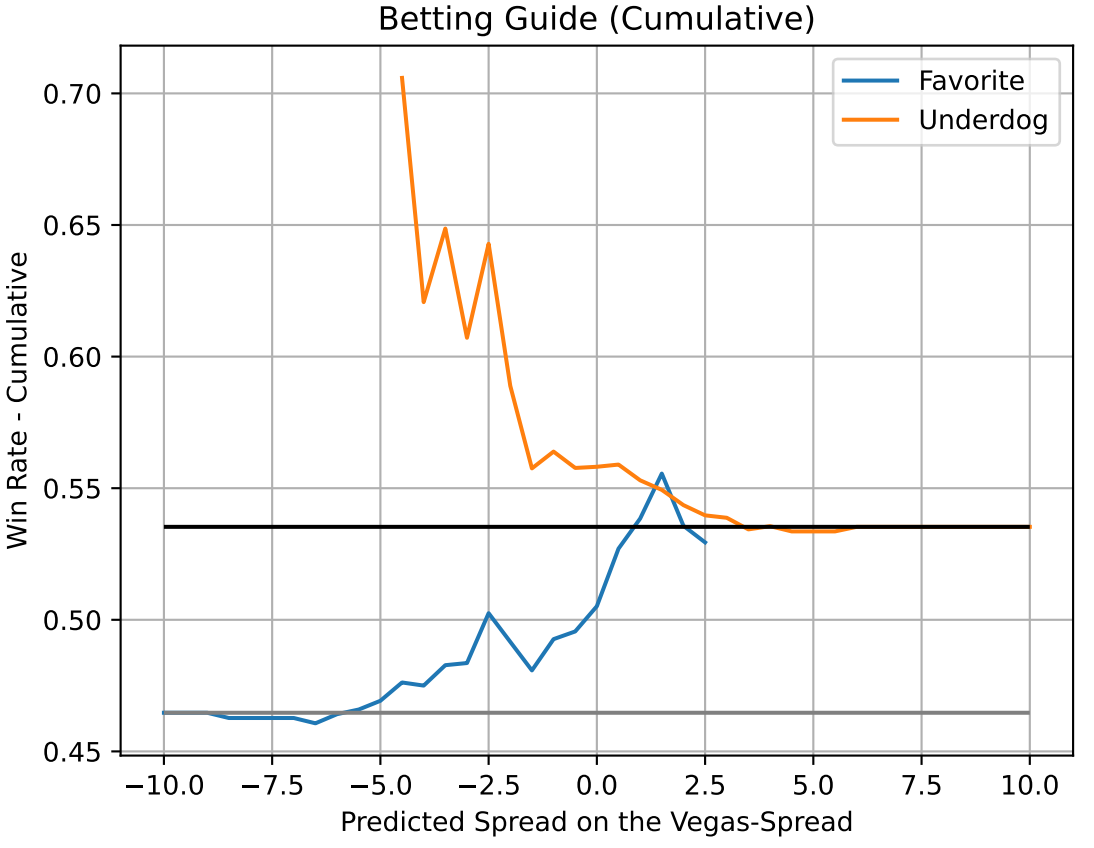

Train
AUC: 0.682
n=269
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0

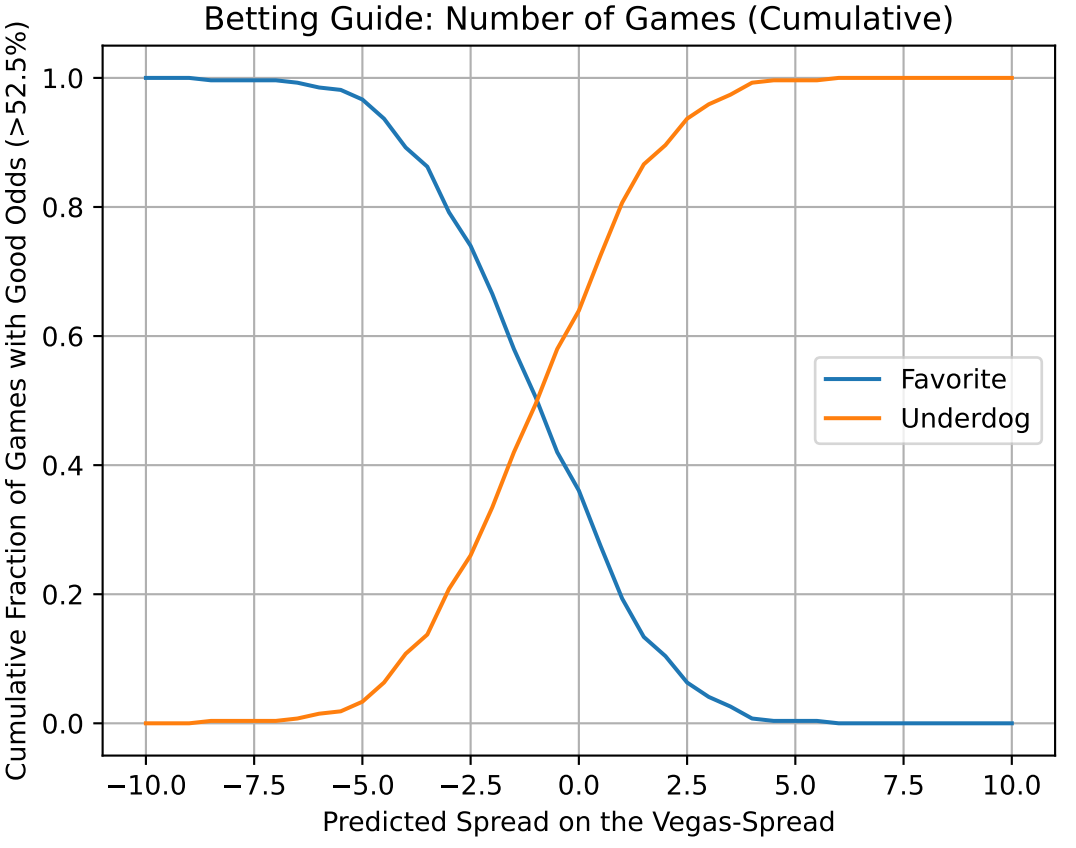

Test
AUC: 0.554
n=269
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0

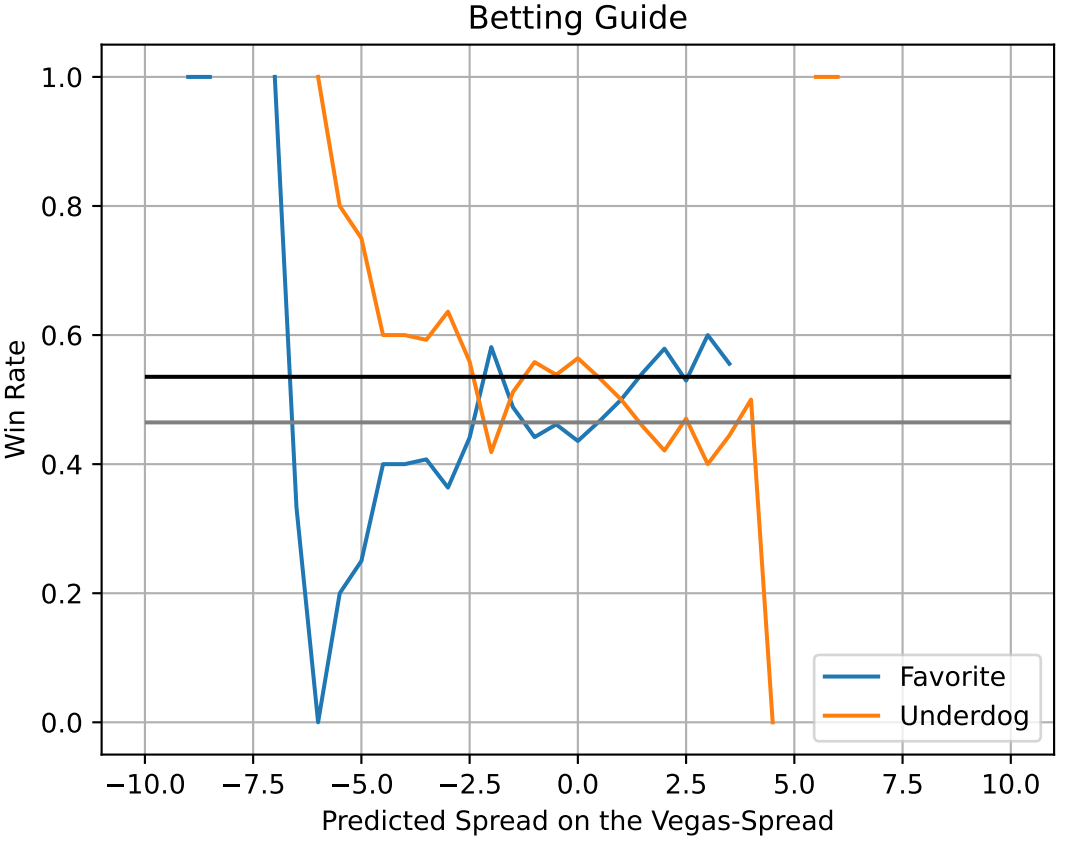

Train
1.0
0.8
0.6
0.4
0.2
0.0
−10
−8
−6
−4
−2
0
2
4
6
precision
recall

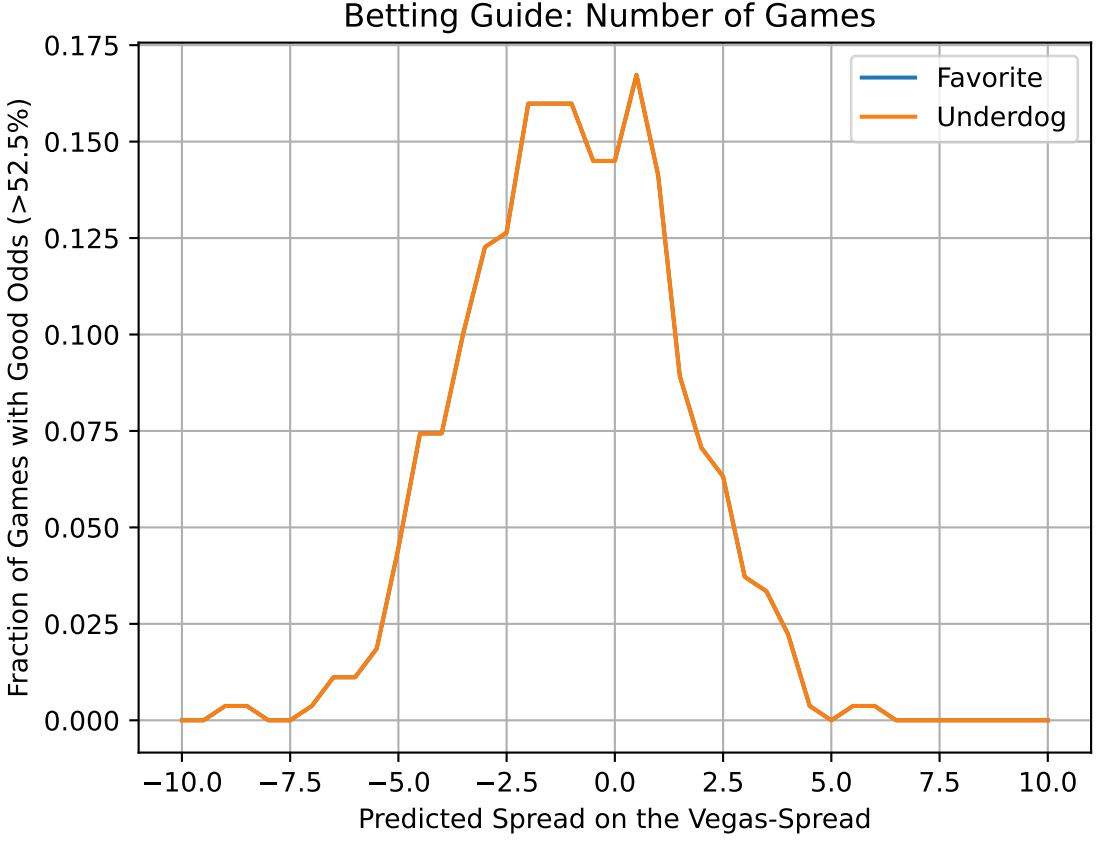

Test
1.0
0.8
0.6
0.4
0.2
0.0
−8
−6
−4
−2
0
2
4
6
precision
recall


Bias check
Win Rate
0.0
0.1
0.2
0.3
0.4
0.5
2
4
6
8
10
12
Month


Betting Guide (Cumulative)
Favorite
Underdog
0.70
0.65
0.60
0.55
0.50
0.45
Win Rate - Cumulative
−10.0
−7.5
−5.0
−2.5
0.0
2.5
5.0
7.5
10.0
Predicted Spread on the Vegas-Spread


Betting Guide: Number of Games (Cumulative)
Cumulative Fraction of Games with Good Odds (>52.5%)
1.0
0.8
0.6
0.4
0.2
0.0
−10.0
−7.5
−5.0
−2.5
0.0
2.5
5.0
7.5
10.0
Predicted Spread on the Vegas-Spread
Favorite
Underdog


Betting Guide
Win Rate
1.0
0.8
0.6
0.4
0.2
0.0
−10.0
−7.5
−5.0
−2.5
0.0
2.5
5.0
7.5
10.0
Predicted Spread on the Vegas-Spread
Favorite
Underdog


Betting Guide: Number of Games
Favorite
Underdog
Fraction of Games with Good Odds (>52.5%)
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
−10.0
−7.5
−5.0
−2.5
0.0
2.5
5.0
7.5
10.0
Predicted Spread on the Vegas-Spread