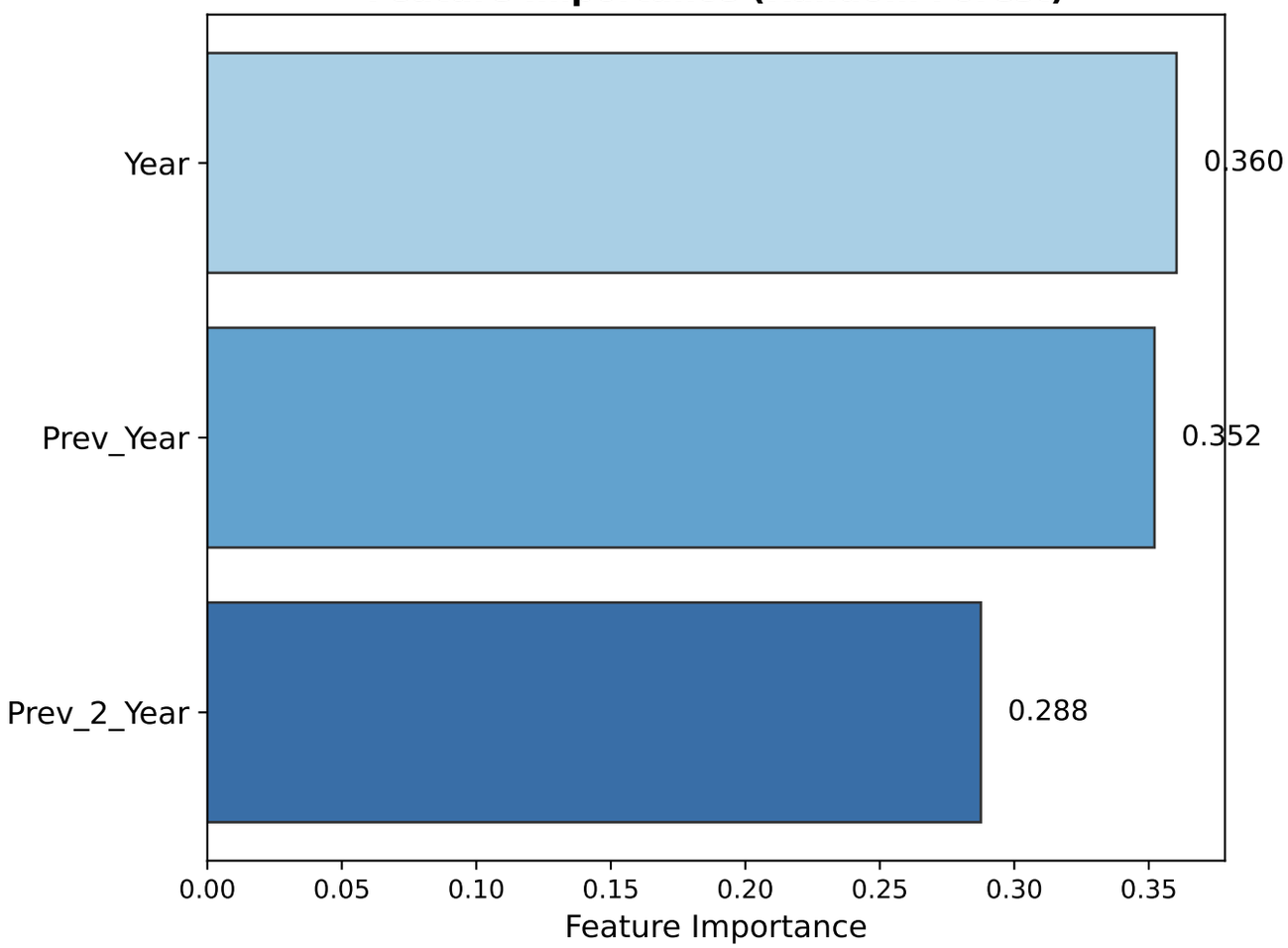
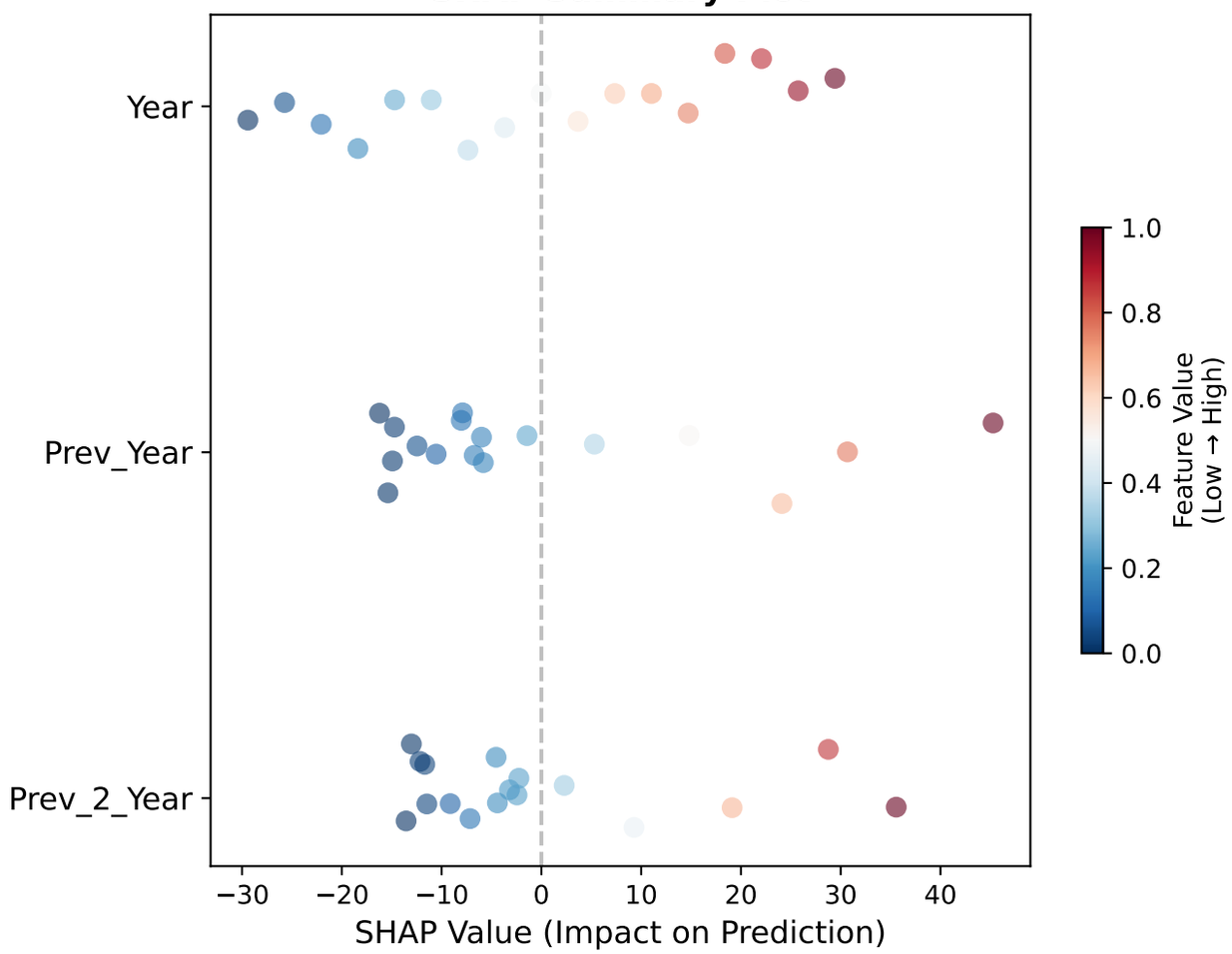
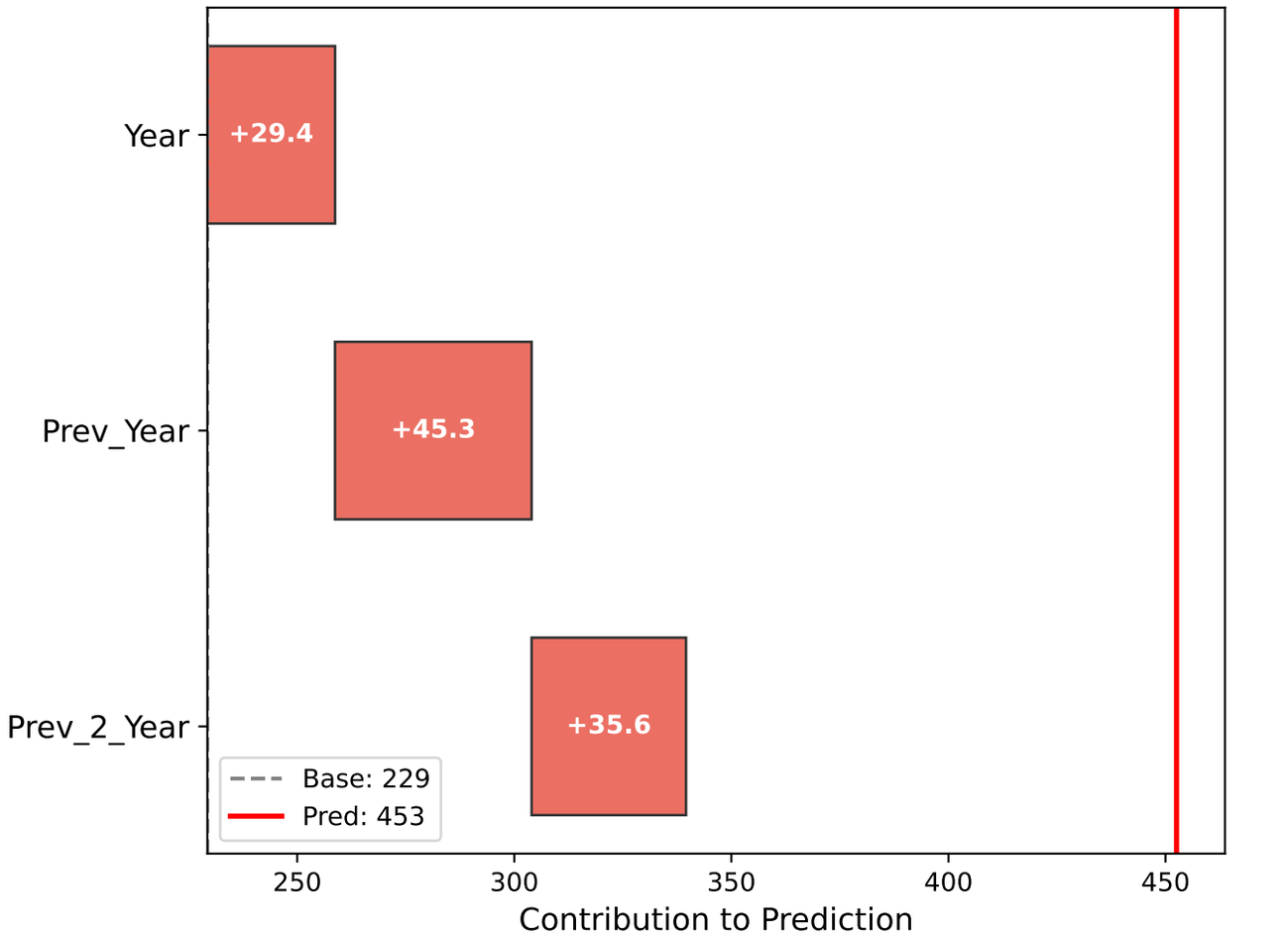
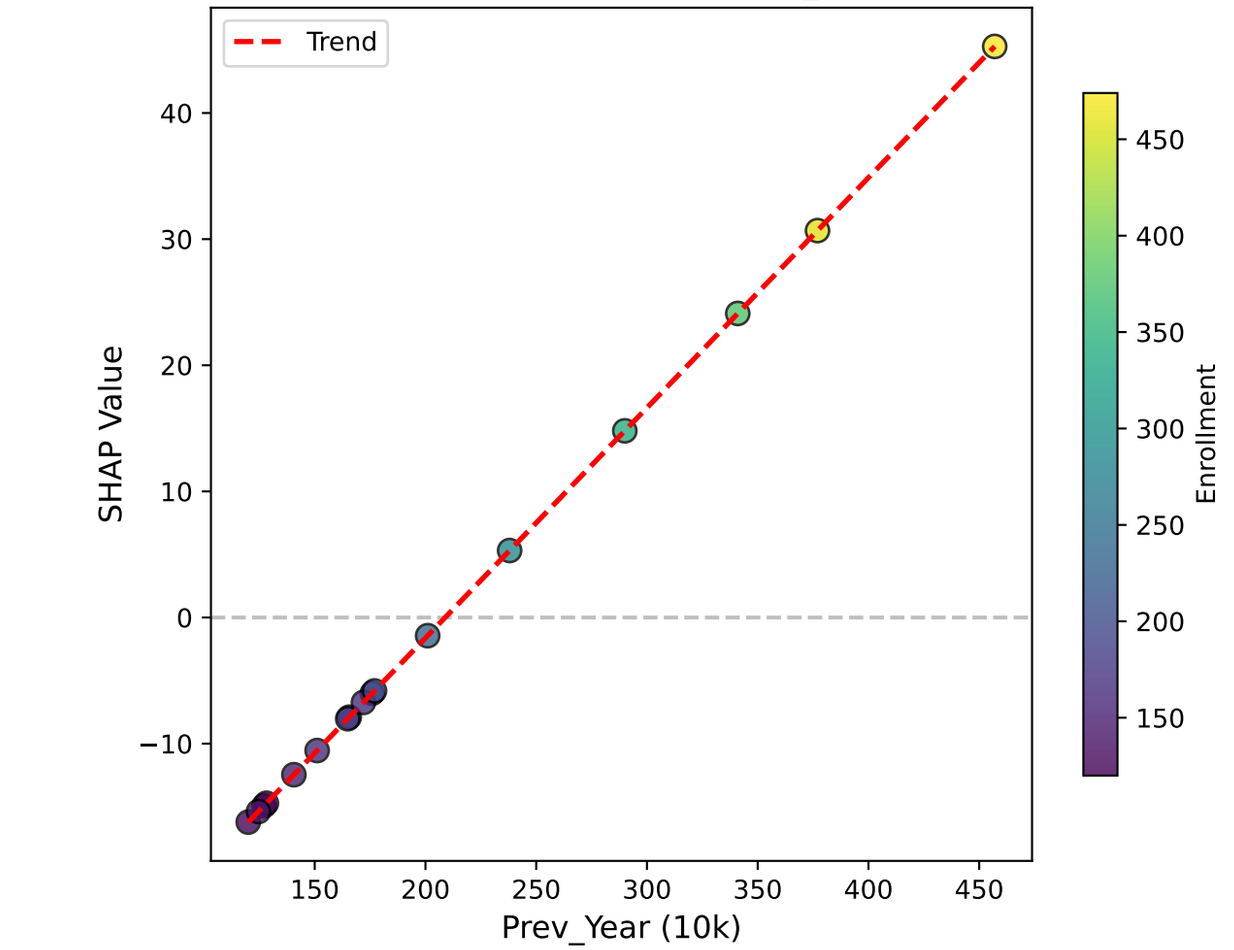

Feature Importance (Random Forest)
Year
Prev_Year
Prev_2_Year
0.360
0.352
0.288
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
Feature Importance


SHAP Summary Plot
Year
Prev_Year
Prev_2_Year
−30
−20
−10
0
10
20
30
40
SHAP Value (Impact on Prediction)
Feature Value
(Low → High)
1.0
0.8
0.6
0.4
0.2
0.0


SHAP Waterfall for 2023 (True: 474)
Year
Prev_Year
Prev_2_Year
+29.4
+45.3
+35.6
Base: 229
Pred: 453
250
300
350
400
450
Contribution to Prediction


SHAP Dependence: Prev_Year
Trend
SHAP Value
40
30
20
10
0
−10
150
200
250
300
350
400
450
Prev_Year (10k)
Enrollment
450
400
350
300
250
200
150