

Olympic Medal Prediction

Evaluation Report

Evaluation Summary

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Test Set: 282 samples (2020-2022)

Classification Performance:

- Accuracy: 0.7518
- Precision: 0.6913
- Recall: 0.8110
- F1 Score: 0.7464
- ROC AUC: 0.8480
- PR AUC: 0.8258
- Brier Score: 0.1998

Regression Performance (All):

- MAE: 3.997 medals
- RMSE: 7.432 medals
- R^2 : 0.668

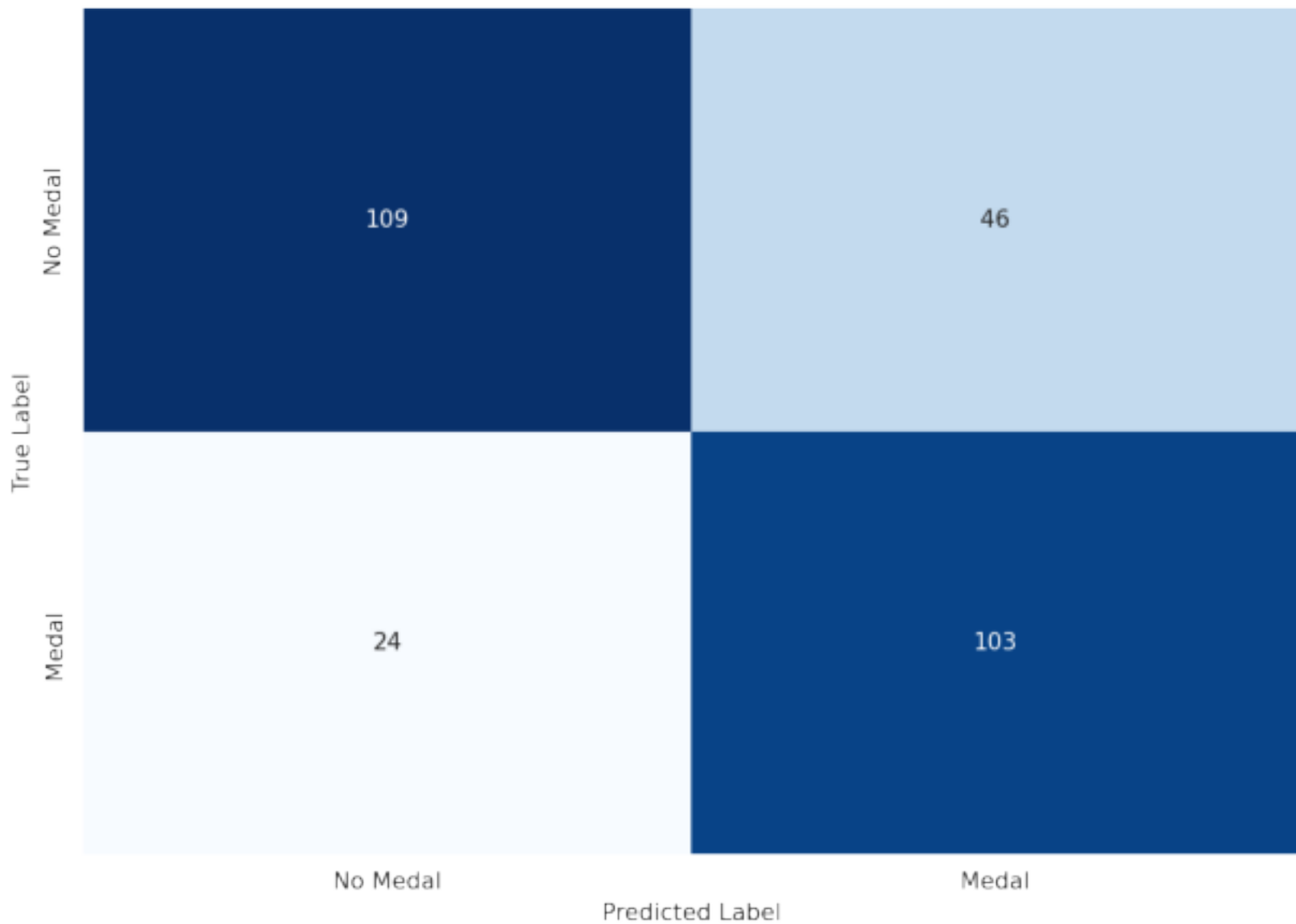
Regression Performance (Actual Winners Only):

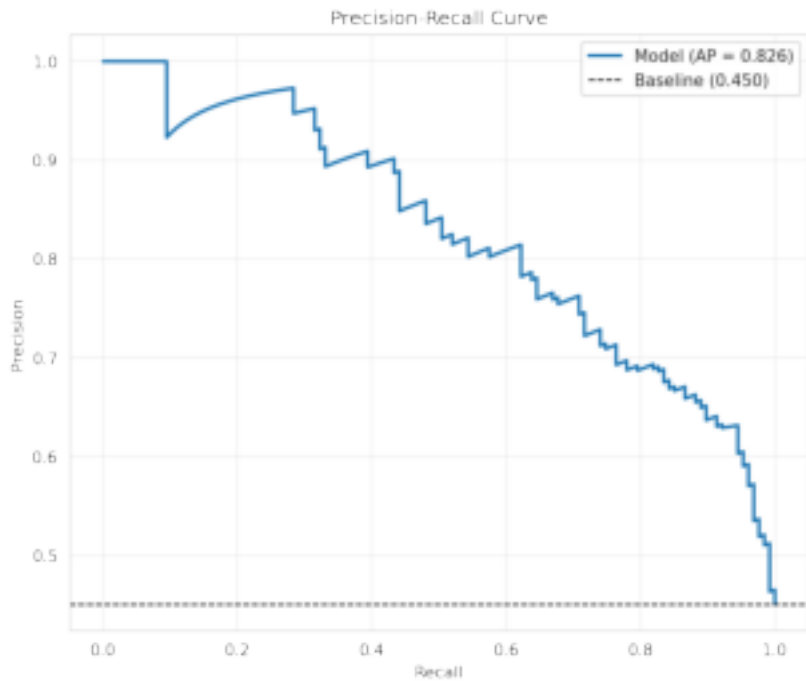
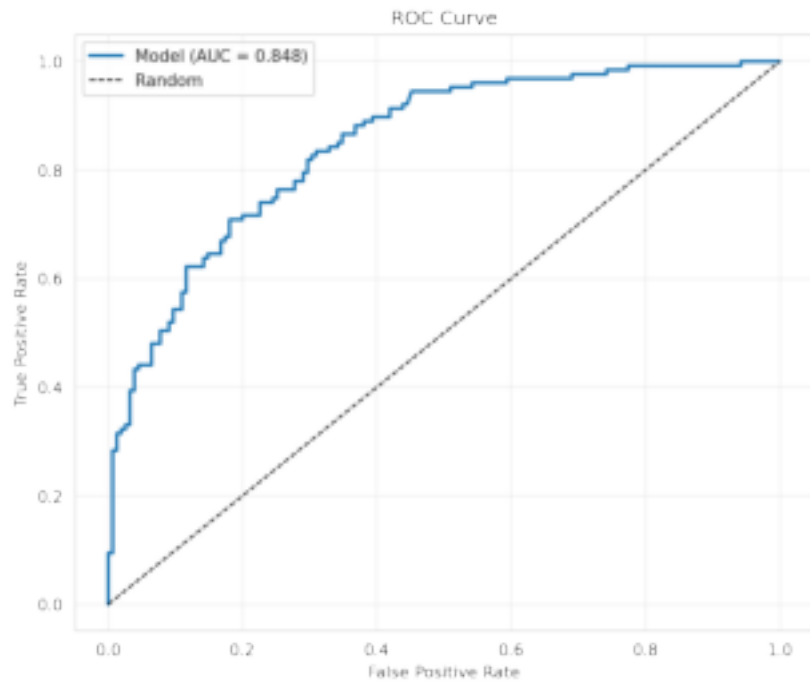
- MAE: 6.487 medals
- RMSE: 9.928 medals

Predictions:

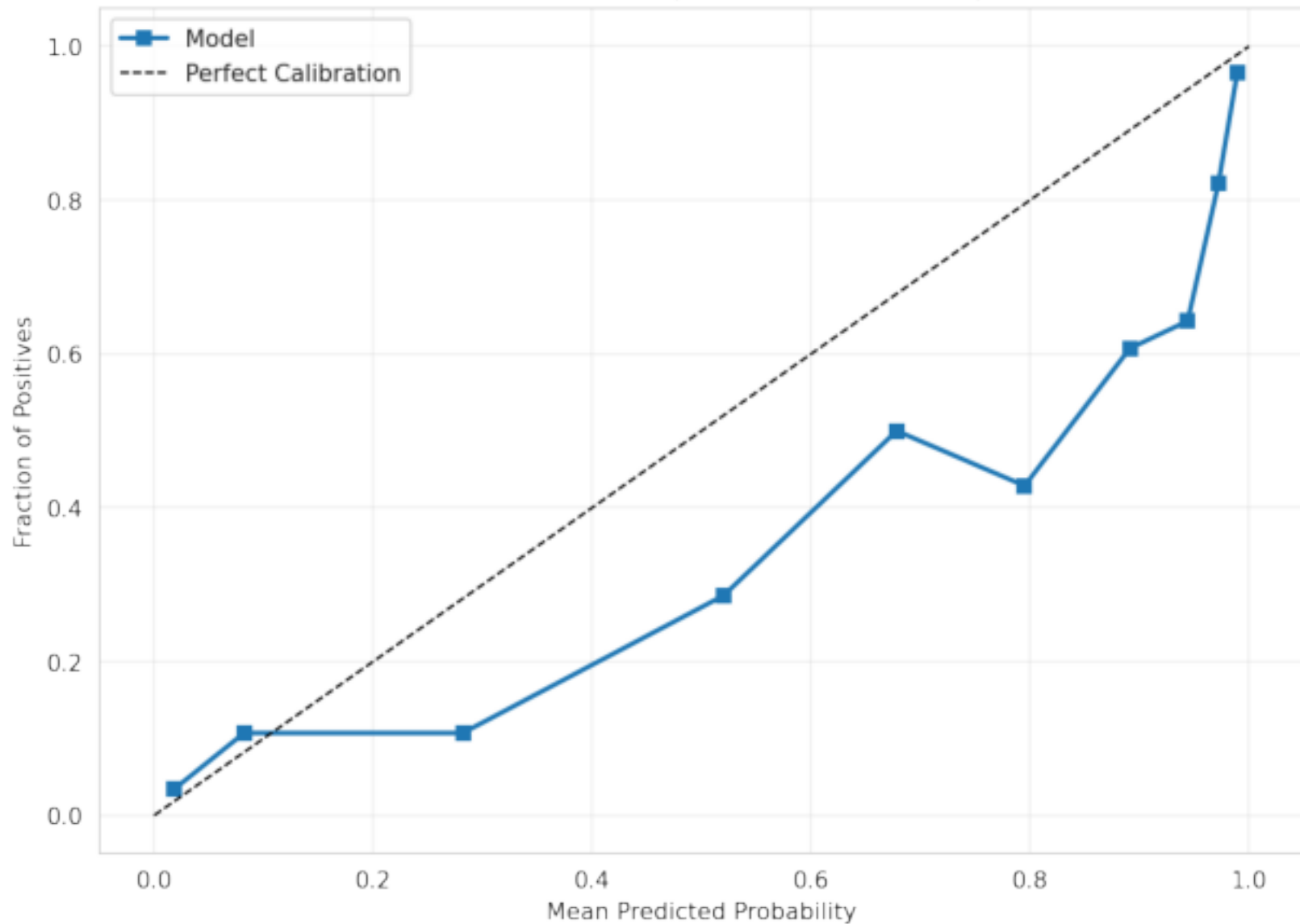
- Predicted Medal Winners: 149
- Actual Medal Winners: 127
- True Positives: 103
- False Positives: 46
- False Negatives: 24

Confusion Matrix - Medal Prediction

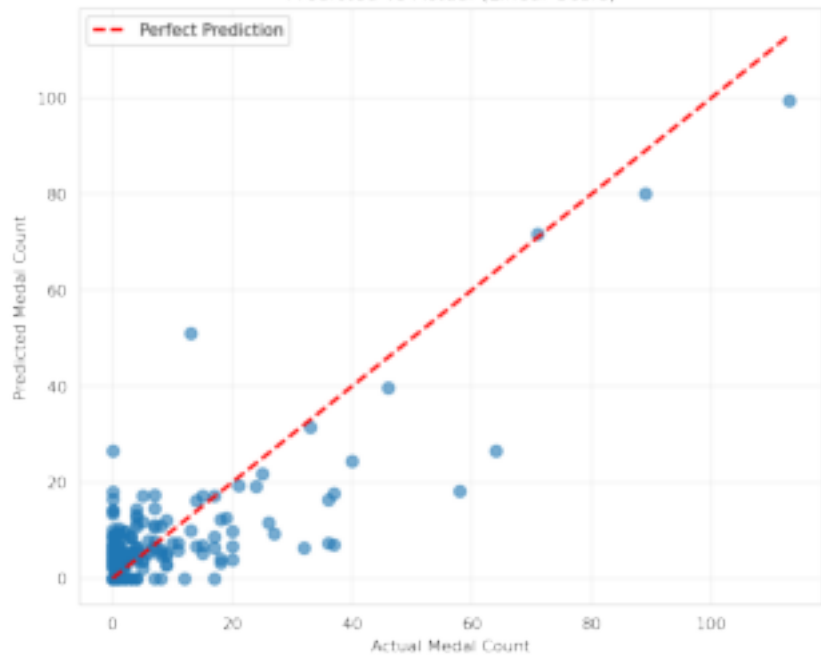




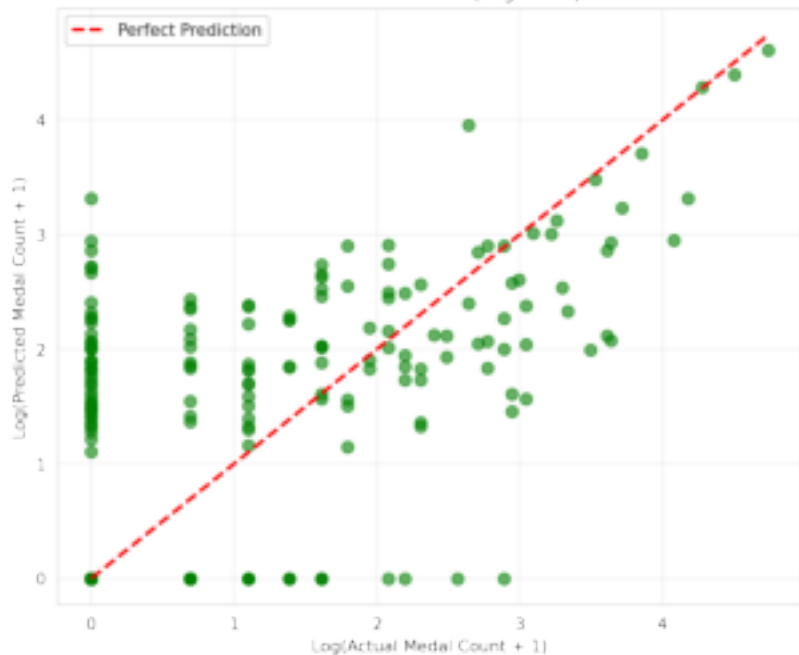
Calibration Curve (Brier Score = 0.1998)



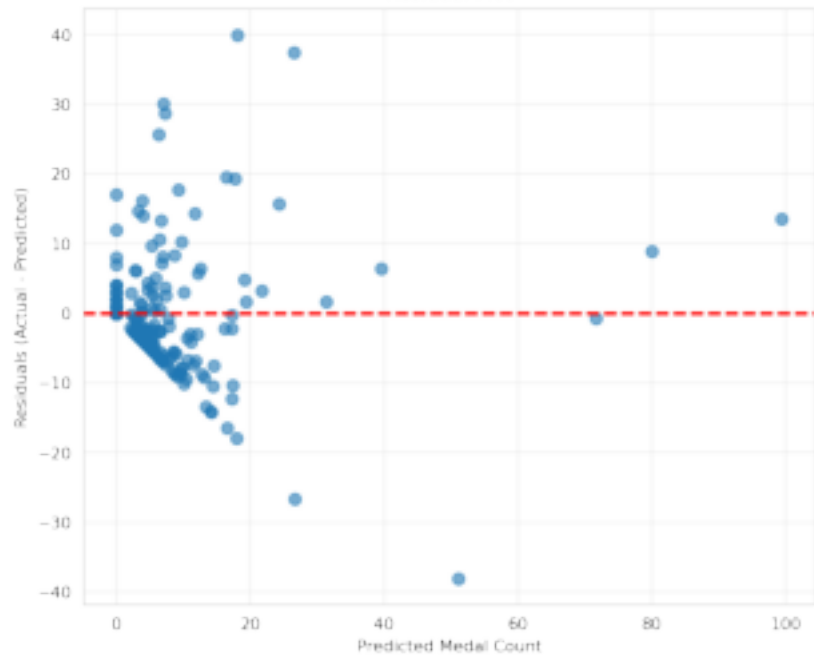
Predicted vs Actual (Linear Scale)



Predicted vs Actual (Log Scale)



Residual Plot



Residual Distribution

