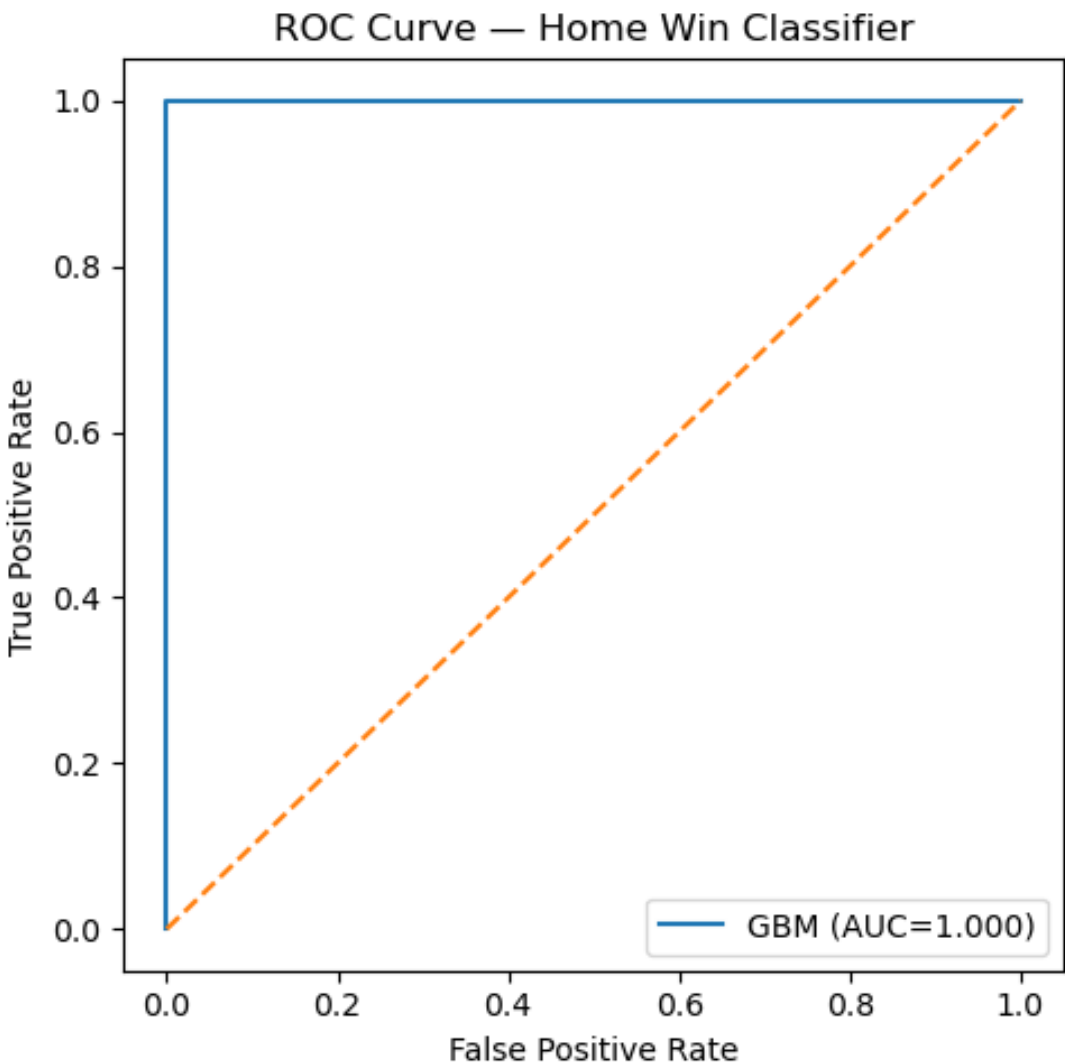# Sports Match Outcome Prediction — Report

Basketball: Home Win Probability & Total Points (Over/Under)
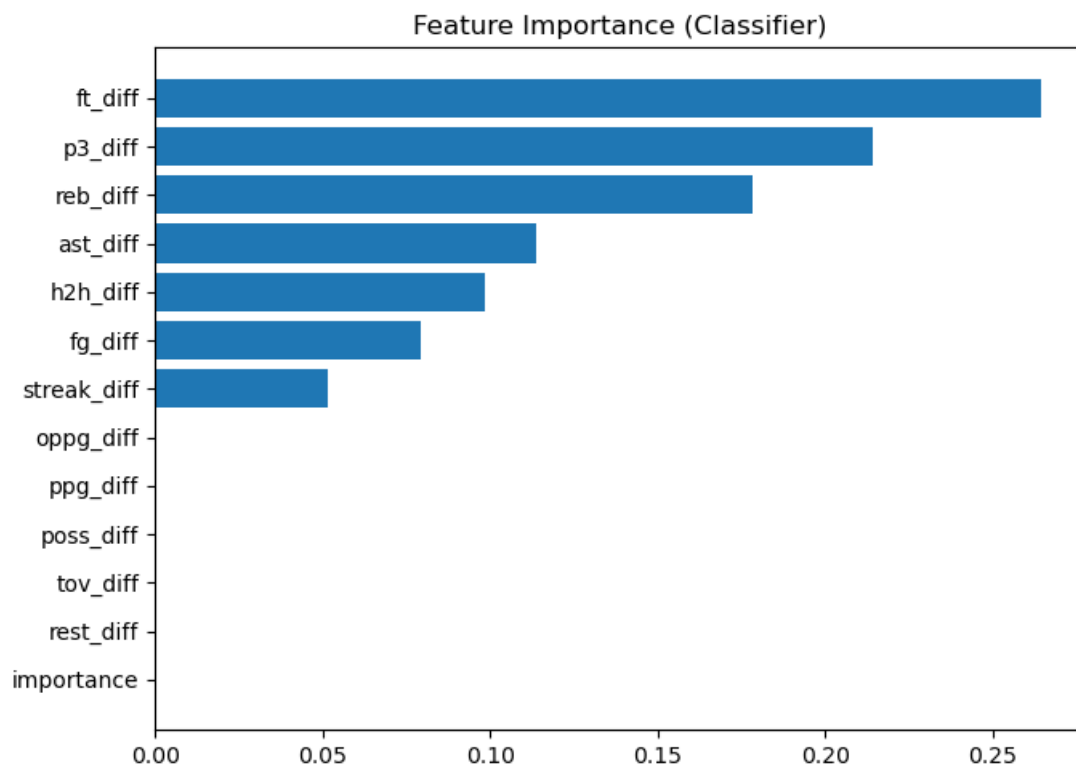
Model Performance

• Classification Accuracy: **1.000**
• ROC–AUC: **1.000**
• Regression MAE (total points): **4.07**
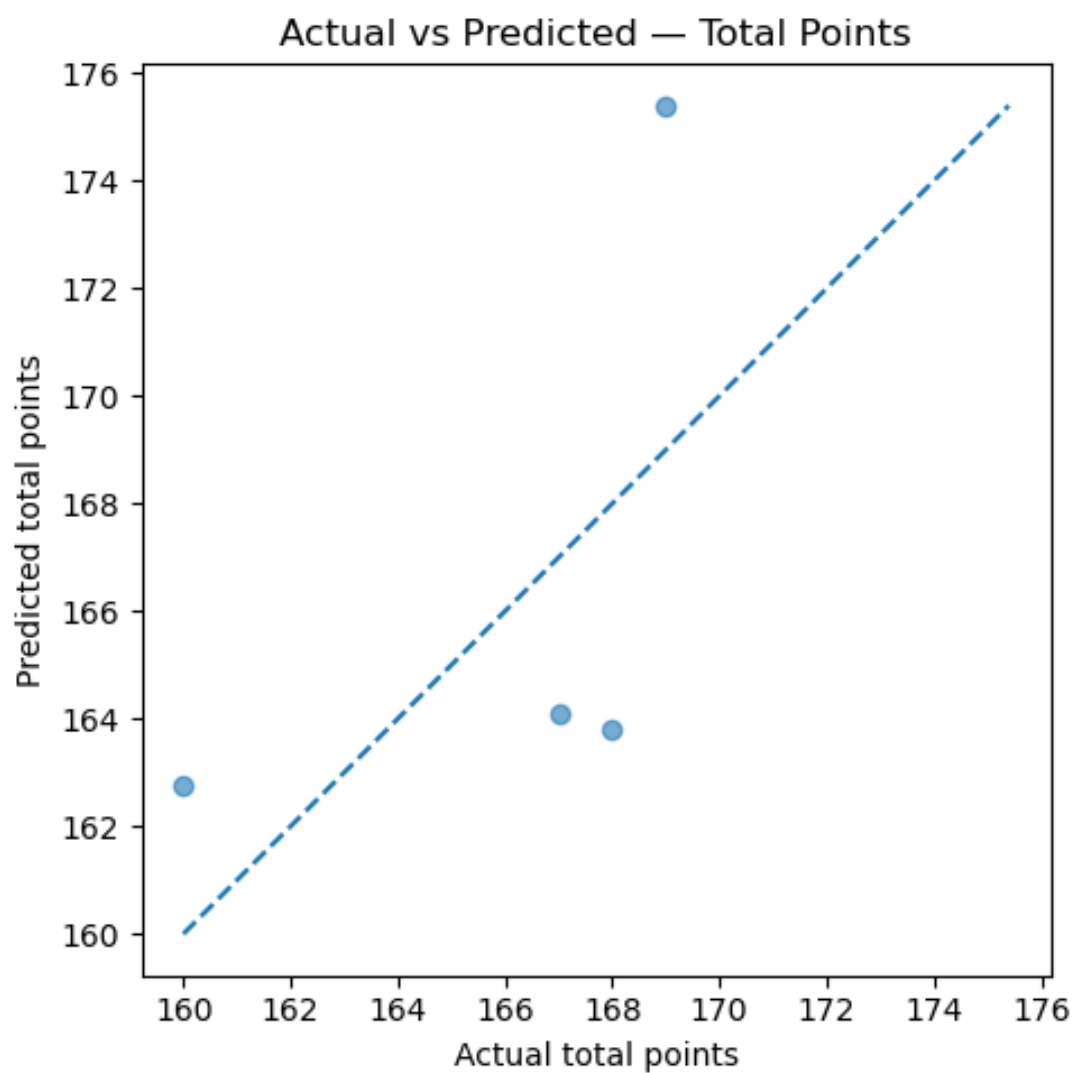• Regression RMSE (total points): **4.32**

ROC Curve (Classifier)

Feature Importance (Classifier)

Feature Importance (Classifier)

Actual vs Predicted — Total Points (Regressor)

Actual vs Predicted — Total Points

Predictions (Upcoming Fixtures)

date	league	home_team	away_team	win_prob_home	win_prob_away	pred_total_points	suggestion
2025-04-12	Euroleague	Real Madrid	Panathinaikos	100.0%	0.0%	175.4	Home ML
2025-04-13	Euroleague	Olympiacos	Fenerbahce	100.0%	0.0%	162.2	Home ML

Executive Summary

The pipeline estimates **home win probabilities** and **total points** for upcoming games. Key drivers (per feature importance) often include **FG% differential**, **TOV differential**, and **PPG differential**. Use win probabilities (>55% as a soft threshold) and predicted totals versus market lines to form *indicative* suggestions.