

Football Match Prediction Report

Match Information

Home Team:	Atlanta United
Away Team:	Austin FC
Referee:	Allen Chapman
Report Generated:	2025-06-06 18:09:28
Prediction Method:	XGBoost + Poisson Distribution Simulation

Prediction Summary

Metric	Home Team	Away Team
Predicted Goals	0.07	0.57
Expected xG	0.00	0.00

Match Outcome Probabilities

Outcome	Probability
Home Win	5.5%
Draw	54.3%
Away Win	40.1%

Detailed Model Analysis

Model Confidence Metrics

Classifier Confidence: 0.383
Features Used: 45
Training Samples: Variable by model

Top Feature Importance

Feature	Importance
H2H Home Wins	0.2913
H2H Draws	0.1965
H2H Away Wins	0.1107
H2H Home Goals Avg	0.0296

Away Ppg	0.0243
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Poisson Distribution Analysis

Expected Goals Parameters

Home Team Lambda (Expected Goals): 0.100
 Away Team Lambda (Expected Goals): 0.566
 Most Likely Scoreline: 0-0
 Scoreline Probability: 51.4%

Top Scoreline Probabilities

Scoreline	Probability
0-0	51.36%
0-1	29.09%
0-2	8.24%
1-0	5.14%
1-1	2.91%
0-3	1.55%
1-2	0.82%
2-0	0.26%
0-4	0.22%
1-3	0.16%

Head-to-Head Statistics

Metric	Value
Home Wins	0
Draws	0
Away Wins	0
Average Home Goals	0.00
Average Away Goals	0.00

Referee Bias Analysis (RBS)

Referee Bias Scores

Team	RBS Score	Confidence	Matches with Referee
Atlanta United	-0.674	20.0%	2

RBS Score Interpretation:

- Positive values indicate favorable treatment by the referee
- Negative values indicate unfavorable treatment
- Values range from -1.0 to +1.0
- Higher confidence percentages indicate more reliable scores

Model Information & Methodology

Prediction Method: XGBoost + Poisson Distribution Simulation

XGBoost Models:

- Classification model for match outcomes (Win/Draw/Loss)
- Regression models for goals and xG prediction
- Uses 65+ features including team performance, form, and referee bias

Poisson Simulation:

- Uses predicted goals as lambda parameters
- Calculates probability for each possible scoreline
- Provides more accurate outcome probabilities than direct classification

Key Features Used:

- Team offensive and defensive statistics
- Recent form (last 5 matches)
- Head-to-head historical performance
- Referee bias scores (RBS)
- Home advantage factor
- Team quality metrics (points per game)

*This report was generated by the Football Analytics Prediction System.
Predictions are based on historical data and statistical models.
Results should be used for informational purposes only.*