Descriptive Analysis Summary

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- Total Matches: 6,840

- Total Goals Scored: 18,179

- Average Home Goals per Match: 1.53

- Average Away Goals per Match: 1.13

- Match Outcome Distribution: 46.43% Home Wins, 53.57% Not Home Wins

Top 5 Teams with the Most Home Goals Scored:

1. Arsenal: 755 goals

2. Chelsea: 735 goals

3. Manchester United: 731 goals

4. Liverpool: 661 goals

5. Manchester City: 630 goals

Top 5 Teams with the Most Away Goals Scored:

1. Manchester United: 570 goals

2. Arsenal: 561 goals

3. Chelsea: 537 goals

4. Liverpool: 519 goals

5. Manchester City: 469 goals

Diagnostic Analysis Summary

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- Strong positive correlation between Home Goals Scored and Home Win (0.633).

- Negative correlation between Away Goals Scored and Home Win (-0.496).

Predictive Analysis Summary

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- Predictive model (Random Forest Classifier) accuracy for predicting match outcomes (home win or not home win): 60.96%