**Supervised Learning (Regression)**

Performance Comparison

Here are the evaluation results for each model:

1. Random Forest
   * Accuracy: 0.66
   * AUC: 0.64
   * Random Forest struggled with predicting the "Away Win" (class 1), showing a lower recall for this class.
2. Logistic Regression
   * Accuracy: 0.70
   * AUC: 0.68
   * Logistic Regression provided a good balance between precision and recall but had difficulty correctly identifying "Away Win" events.
3. Gradient Boosting
   * Accuracy: 0.69
   * AUC: 0.67
   * Gradient Boosting performed similarly to Random Forest but showed a slightly better recall for the "Away Win" class.

Cross-Validation Results

The cross-validation results showed the following average accuracy across 5 folds:

* Random Forest: 0.69
* Logistic Regression: 0.73
* Gradient Boosting: 0.70

Conclusion

Best Model: Logistic Regression. Achieved the highest cross-validation accuracy (0.73) and had the best overall performance in terms of accuracy and stability. It also showed balanced performance across both classes, though there is room for improvement in predicting "Away Win."