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| **Sr.No** | **Test Description** | **Expected Results** | **Actual Results** | **Pass/Fail** | **Notes** |
| 1 | Load and verify dataset file paths | Dataset loads without errors | Dataset loads without errors | Pass | File paths must be correctly defined |
| 2 | Preprocess dataset (drop NaN, select features) | Cleaned dataset | Cleaned dataset | Pass | Missing values were handled |
| 3 | Split data into training and testing sets (80:20) | Correctly split data | Correctly split data | Pass | Data split successfully |
| 4 | Train Linear Regression model on player data | Model trains successfully | Model trains successfully | Pass | No errors in training |
| 5 | Make predictions using Linear Regression model | Predictions generated successfully | Predictions generated successfully | Pass | Predictions produced reasonable outputs |
| 6 | Evaluate model performance (MAE, MSE, RMSE, R2) | Performance metrics calculated | Performance metrics calculated | Pass | Metrics computed correctly |
| 7 | Visualise Actual vs. Predicted values | Graph displays correctly | Graph displays correctly | Pass | Scatter plot generated |
| 8 | Visualise residuals distribution | Histogram displays correctly | Histogram displays correctly | Pass | Residuals followed expected pattern |
| 9 | Compute correlation heatmap | Heatmap generated successfully | Heatmap generated successfully | Pass | Strong correlations observed |
| 10 | Train Linear Regression model on FIFA player data | Model trains successfully | Model trains successfully | Pass | Different dataset trained properly |
| 11 | Predict market value of new FIFA players | Predictions generated successfully | Predictions generated successfully | Pass | Model outputs were reasonable |
| 12 | Perform sentiment analysis on Reddit posts | Sentiment scores calculated | Sentiment scores calculated | Pass | VADER used for analysis |
| 13 | Group sentiment analysis results by player and season | Results grouped successfully | Results grouped successfully | Pass | Average sentiment scores computed |
| 14 | Run code in Google Colab | Code executes successfully | Code executes successfully | Pass | No compatibility issues found |