

Findings Summary

1. **Player Demographics:** Most players are in their mid-20s, with the average age around 25. Only a few are older than 35.
2. **Player Ratings:** Player ratings are skewed towards 60-80, with very few exceptional players above 90.
3. **Nationalities:** Players from Spain, Germany, and Brazil are highly represented.
4. **Age vs. Rating:** Younger players show higher potential but usually lower current ratings.
5. **Club Wages:** Top clubs like Barcelona and Real Madrid pay significantly higher wages.
6. **Position and Height:** Defenders are generally taller compared to other positions.
7. **Handling Missing Data:** Missing values were filled with medians or modes, ensuring data integrity.
8. **Outliers:** Outliers in wage and value were treated to avoid skewed analysis.
9. **Categorical Variables:** Position and foot preference were converted to binary features for modeling.
10. **Data Split:** The dataset was split into training and testing sets for model evaluation.