Project Description

English Premier League 2024/25 Player and Team Performance Analysis

Problem Statement:

Football is the most popular sport in the world, with around 3.5 billion people considering it their favourite. Millions of people work in football, whether as players, coaches, analysts, medical teams, or even content creators.

Football today is very different from how it was 50 years ago. In the past, the game depended mainly on player talent and coaching ideas. Now, football has become more advanced and technical because of the use of data. Every professional team has a data analysis department that studies player performance, team performance, and opponent strategies.

Data analysis now plays a key role in almost every football decision, from choosing the best formation and tactics to selecting starting players. Coaches rely heavily on data to improve performance and achieve better results. This shows how important data analytics has become in modern football and why analysing football data can help teams make smarter decisions.

Possible Impact of My Analysis:

This analysis will help football fans follow their favourite teams and players more closely. They will be able to see how their team's performance has changed compared to last season and how players have improved or dropped in form.

It will also make it easier for fans to spot the best players in each position and decide who deserves to be recognised as the best based on real data. They can even build their own "team of the season" using the statistics.

In addition, the analysis can be useful for coaches, scouts, and analysts to get a clearer picture of player performance, strengths, and areas that need improvement. It can also help content creators and football pages share more accurate insights with their audience.

Overall, this project shows how data can make football discussions more interesting, fair, and based on real evidence.

The dataset used in this project focuses on player performance in the English Premier League 2024/25 season. Each row represents a single player and includes a wide range of attributes across different aspects of the game:

- Offensive performance: Goals, assists, shots on target, big chances missed, xG (expected goals), conversion rate.
- Defensive contribution: Tackles, interceptions, clearances, aerial duels, blocks, ground duels.
- Passing and creativity: Passes, successful passes, final-third passes, through balls, crosses.
- Possession and ball movement: Carries, progressive carries, touches, dispossessions.
- Goalkeeping metrics: Saves, save percentage, punches, high claims, goals prevented, penalties saved.
- Disciplinary records: Fouls, yellow cards, red cards.

Source: English Premier League - Player Stats - 24/25