

The Game in Numbers: Analyzing Football Data from Transfermarkt

Abstract:

This project aims to unravel hidden patterns and trends within football data. It endeavors to uncover unique insights, presenting them vividly through visualization techniques. By bringing the numbers to life, The project aims to provide valuable insights into player statistics, team performance, and football analytics.

Dataset:

Transfermarket dataset created by David Cereijo! The dataset, comprehensive and regularly updated, encompasses player statistics, match performances, and club-level details across diverse seasons and competitions.

Data source: <https://data.world/dcereijo/player-scores>

Project Phases:

Data Preparation: Gathering, cleaning, and preprocessing the dataset to ensure usability.

Data Profiling: Exploratory analysis to grasp the dataset's contents, identifying patterns and trends.

Data Processing: Transformations and feature engineering to derive meaningful variables.

Data Visualization: Presenting insights through insightful plots, graphs, and interactive charts.

Specific aspects explored within the project include age distributions of football players, performance differentials at home and away in the top 5 leagues, player density in domestic competitions, player valuation trends over time, notable goal scorers against clubs from prominent players like Cristiano Ronaldo and Lionel Messi, player nationalities across leagues, and analysis of goals based on their position on the field.

This project aims to bridge the gap between data analytics and football, presenting engaging insights and fostering a deeper understanding of the sport through data-driven exploration.