

# Football Dataset - Data Dictionary

This document provides a comprehensive overview of all columns in the football dataset with their corresponding descriptions.

## Player Appearance Information

Column Name	Description
appearance_id	Unique identifier for a player's appearance in a specific match
game_id	Unique identifier for the match
player_id	Unique identifier for the player
date_x	Date of the match (linked to the player's appearance)
player_name_x	Name of the player for the given appearance
competition_id_x	Competition code/ID (e.g., League, Cup, etc.) for the appearance

## Match Performance Statistics

Column Name	Description
yellow_cards	Number of yellow cards received by the player in this match
red_cards	Number of red cards received by the player in this match
goals	Number of goals scored by the player in this match
assists	Number of assists provided by the player in this match
minutes_played	Total minutes the player was on the pitch in this match

## Player Profile Information

Column Name	Description
name	Player's full name (may be redundant with player_name_x)
last_season	Last season in which this player played (may indicate career span)
current_club_id	Unique identifier of the player's current club
player_code	Unique code used to identify the player in the dataset
country_of_birth	Player's country of birth
date_of_birth	Player's date of birth

## Player Position and Physical Attributes

Column Name	Description
sub_position	Player's specific playing position (e.g., Left Wing, Right Back)
position_x	General position category (e.g., Defender, Midfielder, Forward)
foot	Dominant foot of the player (Left, Right, Both)
height_in_cm	Player's height in centimeters

## Market Value and Contract Information

Column Name	Description
market_value_in_eur	Player's current market value (in Euros)
highest_market_value_in_eur	Highest market value the player has ever reached (in Euros)
contract_expiration_date	Expiry date of the player's current club contract
agent_name	Name of the player's agent

## Match and Competition Details

Column Name	Description
competition_id_y	Competition code/ID at the game level (may match competition_id_x)
season	Football season in which the match took place (e.g., 2012/2013)
round	Match round (e.g., Matchday number)
date_y	Match date (redundant with date_x but at the match level)

## Match Results and Team Information

Column Name	Description
home_club_goals	Goals scored by the home club
away_club_goals	Goals scored by the away club
home_club_position	League table position of the home club at the time of the match
away_club_position	League table position of the away club at the time of the match
home_club_manager_name	Name of the home club's manager during this match
away_club_manager_name	Name of the away club's manager during this match

## Match Venue and Officials

Column Name	Description
stadium	Stadium where the match was played
attendance	Number of spectators present at the match
referee	Name of the match referee
home_club_name	Name of the home club
away_club_name	Name of the away club
aggregate	Aggregate score (used for two-legged ties)
competition_type	Type of competition (League, Cup, International, etc.)

## Game Events Information

Column Name	Description
game_event_id	Unique identifier for a specific in-game event
date	Date of the event (may duplicate date_x/date_y)
minute	Minute of the match in which the event occurred
type_x	Event type (e.g., Goal, Card, Substitution)
description	Text description of the event (e.g., "Yellow card for foul")
player_in_id	ID of the player substituted in (if applicable)

## Lineup Information

Column Name	Description
game_lineups_id	Unique identifier for the match lineup
type_y	Player's role in the lineup (Starter, Substitute)
number	Player's jersey number
player_name_y	Player's name in the lineup context
team_captain	Indicates if the player was team captain (Yes/No or binary)
position_y	Position of the player in the lineup context

**Total Columns:** 53

**Dataset Coverage:** Complete football match data including player performances, match details, team information, events, and lineups