

### **2022\_transfers.csv**

player\_name: Player's name  
age: Age of the player  
fee: Transfer fee of the player  
transfer\_period: Transfer window for the transfer of the player  
season: Upcoming season ahead of the transfer  
Squad: Player's team or squad  
player\_code: Unique identifier for the player

### **squad\_comparisons.csv**

'Squad': Team name  
'sq\_Poss': Team's possession statistics  
'sq\_Gls': Team's total goals scored  
'sq\_Ast': Team's total assists  
'sq\_Gls/90': Team's average goals scored per 90 minutes  
'sq\_Ast/90': Team's average assists per 90 minutes  
'opp\_sq\_Poss': Opponent team's possession statistics  
'opp\_sq\_Gls': Opponent team's total goals scored  
'opp\_sq\_Ast': Opponent team's total assists  
'opp\_sq\_Gls/90': Opponent team's average goals scored per 90 minutes  
'opp\_sq\_Ast/90': Opponent team's average assists per 90 minutes

### **squads 2022-2023.csv**

'Squad': Team name  
'sq\_Poss': Team's possession statistics  
'sq\_Gls': Team's total goals scored  
'sq\_Ast': Team's total assists  
'sq\_Gls/90': Team's average goals scored per 90 minutes  
'sq\_Ast/90': Team's average assists per 90 minutes  
'opp\_sq\_Poss': Opponent team's possession statistics  
'opp\_sq\_Gls': Opponent team's total goals scored  
'opp\_sq\_Ast': Opponent team's total assists  
'opp\_sq\_Gls/90': Opponent team's average goals scored per 90 minutes  
'opp\_sq\_Ast/90': Opponent team's average assists per 90 minutes

### **squads 2021-2022.csv**

'Squad': Team name  
'sq\_Poss': Team's possession statistics  
'sq\_Gls': Team's total goals scored  
'sq\_Ast': Team's total assists  
'sq\_Gls/90': Team's average goals scored per 90 minutes  
'sq\_Ast/90': Team's average assists per 90 minutes  
'opp\_sq\_Poss': Opponent team's possession statistics  
'opp\_sq\_Gls': Opponent team's total goals scored  
'opp\_sq\_Ast': Opponent team's total assists  
'opp\_sq\_Gls/90': Opponent team's average goals scored per 90 minutes  
'opp\_sq\_Ast/90': Opponent team's average assists per 90 minutes

### **transfermarkt\_data.csv**

'player\_id': Unique identifier for the player  
'first\_name': Player's first name  
'last\_name': Player's last name  
'name': Player's full name  
'current\_club\_id': Unique identifier for the player's current club  
'player\_code': Player's code or identifier within the system  
'country\_of\_birth': Player's country of birth  
'date\_of\_birth': Player's date of birth  
'sub\_position': Player's more specific position  
'foot': Player's dominant foot  
'height\_in\_cm': Player's height in centimeters  
'contract\_expiration\_date': Date when the player's contract expires  
'current\_club\_domestic\_competition\_id': Unique identifier for the domestic competition of the player's current club  
'current\_club\_name': Name of the player's current club  
'club\_id': Unique identifier for the club  
'club\_code': Code or identifier for the club  
'last\_season': Last season the player participated in  
'date': Date of the data entry or data snapshot  
'market\_value\_in\_eur': Player's market value in euros  
'player\_club\_domestic\_competition\_id': Unique identifier for the domestic competition of the player's club  
'Born': Player's birth year (last two digits)  
'Based': Player's team's league  
'Squad': Player's team or squad

## **final\_nongk\_data.csv**

'Player': Player's name  
'Squad': Player's team or squad  
'Age': Player's age  
'Born': Player's birth year (last two digits)  
'90s': Minutes played converted to 90-minute intervals  
'Gls': Goals scored  
'Sh': Total shots taken  
'SoT': Shots on target  
'SoT%': Percentage of shots on target  
'Sh/90': Shots per 90 minutes  
'SoT/90': Shots on target per 90 minutes  
'G/Sh': Goals per shot  
'G/SoT': Goals per shot on target  
'Dist': Total distance covered  
'FK': Free kicks taken  
'PK': Penalty kicks scored  
'PKatt': Penalty kick attempts  
'xG': Expected goals  
'npG': Non-penalty expected goals  
'npG/Sh': Non-penalty expected goals per shot  
'G-xG': Goals minus expected goals  
'npG-xG': Non-penalty goals minus non-penalty expected goals  
'Based': Player's team's league  
'Tkl': Total tackles  
'TklW': Tackles won  
'Def 3rd': Tackles in the defensive third  
'Mid 3rd': Tackles in the middle third  
'Att 3rd': Tackles in the attacking third  
'drTkl': Dribbled past tackles  
'Att': Total attempted tackles  
'Tkl%': Tackle success rate  
'Lost': Total times possession was lost  
'Blocks': Total blocks  
'Blocks Sh': Blocked shots  
'Blocks Pass': Blocked passes  
'Int': Interceptions  
'Tkl+Int': Total tackles plus interceptions  
'Clr': Total clearances  
'Err': Errors leading to goals  
'Position': Player's position on the field  
'Total Cmp%': Passing accuracy percentage  
'TotDist': Total distance of passes  
'PrgDist': Progressive distance of passes  
'Short Cmp%': Short passing accuracy percentage

'Medium Cmp%': Medium passing accuracy percentage  
'Long Cmp%': Long passing accuracy percentage  
'Ast': Assists  
'xAG': Expected assists  
'xA': Expected assists  
'KP': Key passes  
'1/3': Passes into the final third  
'PPA': Passes leading to a shot  
'CrsPA': Crosses leading to a shot  
'PrgP': Progressive passes  
'PPM': Points per match  
'onG': Goals scored when player is on the field  
'onGA': Goals conceded when player is on the field  
'+/-': Goal difference when player is on the field  
'+/-90': Goal difference per 90 minutes when player is on the field  
'On-Off': Goal difference when player is on versus off the field  
'onxG': Expected goals when player is on the field  
'onxGA': Expected goals conceded when player is on the field  
'xG+/-': Difference between expected goals scored and expected goals allowed when player is on the field  
'xG+/-90': Difference between expected goals scored and expected goals allowed per 90 minutes when player is on the field  
'xG\_On-Off': Difference in expected goals when player is on versus off the field  
'player\_code': Unique identifier for the player  
'country\_of\_birth': Player's country of birth  
'sub\_position': more specific position  
'foot': Dominant foot  
'height\_in\_cm': Height in centimeters  
'market\_value\_in\_eur': Player's market value in euros  
'fee': Transfer fee  
'transfer\_period': Period of transfer  
'Target': Target variable or outcome (in a predictive modeling context)

**NOTE:** nongk\_data\_2023.csv and player\_data\_2023.csv are subsets of final\_nongk\_data.csv above.

**final\_gk\_data.csv:**

'Player': Player's name  
'Squad': Player's team or squad  
'Age': Player's age  
'Born': Player's birth year (last two digits)  
'90s': Minutes played converted to 90-minute intervals  
'GA': Goals conceded  
'GA90': Goals conceded per 90 minutes  
'SoTA': Shots on target faced  
'Saves': Total saves made  
'Save%': Save percentage  
'CS': Clean sheets (matches without conceding goals)  
'CS%': Clean sheet percentage  
'Based': Player's team's league  
'Tkl': Total tackles  
'TklW': Tackles won  
'Def 3rd': Tackles in the defensive third  
'Mid 3rd': Tackles in the middle third  
'Att 3rd': Tackles in the attacking third  
'drTkl': Dribbled past tackles  
'Att': Total attempted tackles  
'Tkl%': Tackle success rate  
'Lost': Total times possession was lost  
'Blocks': Total blocks  
'Blocks Sh': Blocked shots  
'Blocks Pass': Blocked passes  
'Int': Interceptions  
'Tkl+Int': Total tackles plus interceptions  
'Clr': Total clearances  
'Err': Errors leading to goals  
'Position': Player's position on the field  
'Total Cmp%': Total passing completion percentage  
'TotDist': Total distance of passes  
'PrgDist': Progressive distance of passes  
'Short Cmp%': Short passing completion percentage  
'Medium Cmp%': Medium passing completion percentage  
'Long Cmp%': Long passing completion percentage  
'Ast': Assists  
'xAG': Expected assists  
'xA': Expected assists  
'A-xAG': Assists minus expected assists  
'KP': Key passes  
'1/3': Passes into the final third  
'PPA': Passes leading to a shot  
'CrsPA': Crosses leading to a shot

'PrgP': Progressive passes  
'PPM': Points per match  
'onG': Goals scored when player is on the field  
'onGA': Goals conceded when player is on the field  
'+/-': Goal difference (goals scored minus goals conceded) when player is on the field  
'+/-90': Goal difference per 90 minutes when player is on the field  
'On-Off': Goal difference when player is on versus off the field  
'onxG': Expected goals when player is on the field  
'onxGA': Expected goals conceded when player is on the field  
'xG+/-': Difference between expected goals scored and expected goals allowed when player is on the field  
'xG+/-90': Difference between expected goals scored and expected goals allowed per 90 minutes when player is on the field  
'xG\_On-Off': Difference in expected goals when player is on versus off the field  
'player\_code': Unique identifier for the player  
'country\_of\_birth': Player's country of birth  
'sub\_position': more specific position  
'foot': Dominant foot  
'height\_in\_cm': Height in centimeters  
'market\_value\_in\_eur': Player's market value in euros  
'fee': Transfer fee  
'transfer\_period': Period of transfer  
'Target': Target variable or outcome (in a predictive modeling context)

**NOTE:** gk\_data\_2023.csv is a subset of final\_gk\_data.csv above.