Football Analytics using {worldfootballR}

1 Loading Packages

```r
library(pacman)
p_load(tidyverse, readxl, worldfootballR)
```

2 Get the Team data from URLs or Country Name

```r
epl_2020 <- tm_league_team_urls(country_name = "England", start_year = 2020)
league_one_2024 <- tm_league_team_urls(start_year = 2024, league_url = "https://www.transfer

nigeria_lg_2023 <- tm_league_team_urls(country_name = "Nigeria", start_year = 2023)
nigeria_lg_2023 |> head()
```

```
[1] "https://www.transfermarkt.com/kano-pillars/startseite/verein/6799/saison_id/2023"
[2] "https://www.transfermarkt.com/enyimba-aba/startseite/verein/645/saison_id/2023"
[3] "https://www.transfermarkt.com/remo-stars-fc/startseite/verein/60222/saison_id/2023"
[4] "https://www.transfermarkt.com/lobi-stars-fc/startseite/verein/6907/saison_id/2023"
[5] "https://www.transfermarkt.com/shooting-stars-sc/startseite/verein/5739/saison_id/2023"
[6] "https://www.transfermarkt.com/rivers-united-fc/startseite/verein/53321/saison_id/2023"
```

3 Get the Squad Statistics from Team URLs

```r
manu_team_2020 <- tm_squad_stats(team_url = epl_2020[4])
manu_team_2020 |> head()
```

```
        team_name         league country     player_name
1 Manchester United Premier League England Dean Henderson
2 Manchester United Premier League England     David de Gea
3 Manchester United Premier League England   Sergio Romero
4 Manchester United Premier League England     Joel Pereira
5 Manchester United Premier League England   Nathan Bishop
6 Manchester United Premier League England        Lee Grant
                                                       player_url player_pos
1 https://www.transfermarkt.com/dean-henderson/profil/spieler/258919 Goalkeeper
2    https://www.transfermarkt.com/david-de-gea/profil/spieler/59377 Goalkeeper
3   https://www.transfermarkt.com/sergio-romero/profil/spieler/30690 Goalkeeper
4   https://www.transfermarkt.com/joel-pereira/profil/spieler/192611 Goalkeeper
5  https://www.transfermarkt.com/nathan-bishop/profil/spieler/495033 Goalkeeper
6        https://www.transfermarkt.com/lee-grant/profil/spieler/13460 Goalkeeper
  player_age nationality in_squad appearances goals minutes_played
1         23     England       61          26     0           2325
2         29       Spain       51          36     0           3225
3         33   Argentina        0           0     0              0
4         24    Portugal        0           0     0              0
5         20     England        3           0     0              0
6         37     England       21           0     0              0
```

4 Get the Staffs of a Team

```
epl_managers <- tm_team_staff_urls(team_urls = epl_2020, staff_role = "Manager")
epl_managers |> head()
```

```
[1] "https://www.transfermarkt.com/pep-guardiola/profil/trainer/5672"
[2] "https://www.transfermarkt.com/arne-slot/profil/trainer/34822"
[3] "https://www.transfermarkt.com/enzo-maresca/profil/trainer/53749"
[4] "https://www.transfermarkt.com/ruben-amorim/profil/trainer/65202"
[5] "https://www.transfermarkt.com/ange-postecoglou/profil/trainer/11929"
[6] "https://www.transfermarkt.com/mikel-arteta/profil/trainer/47620"
```

5 League Season Level Data

```r
epl_matchday_38_table <- tm_matchday_table(country_name = "England", start_year= "2023", matc
epl_matchday_38_table |> head()
```

```
  country                                       league matchday rk        squad  p
1 England Games of Matchday 38 Premier League 23/24          38  1     Man City 38
2 England Games of Matchday 38 Premier League 23/24          38  2      Arsenal 38
3 England Games of Matchday 38 Premier League 23/24          38  3    Liverpool 38
4 England Games of Matchday 38 Premier League 23/24          38  4  Aston Villa 38
5 England Games of Matchday 38 Premier League 23/24          38  5    Tottenham 38
6 England Games of Matchday 38 Premier League 23/24          38  6      Chelsea 38
   w  d  l gf ga g_diff pts
1 28  7  3 96 34     62  91
2 28  5  5 91 29     62  89
3 24 10  4 86 41     45  82
4 20  8 10 76 61     15  68
5 20  6 12 74 61     13  66
6 18  9 11 77 63     14  63
```

```r
laliga_matchday_38_table <- tm_matchday_table(country_name = "Spain", start_year= "2023", mat
laliga_matchday_38_table |> head()
```

```
  country                         league matchday rk           squad  p  w
1   Spain Games of Matchday 38 LaLiga 23/24        38  1     Real Madrid 38 29
2   Spain Games of Matchday 38 LaLiga 23/24        38  2       Barcelona 38 26
3   Spain Games of Matchday 38 LaLiga 23/24        38  3          Girona 38 25
4   Spain Games of Matchday 38 LaLiga 23/24        38  4 Atlético Madrid 38 24
5   Spain Games of Matchday 38 LaLiga 23/24        38  5        Athletic 38 19
6   Spain Games of Matchday 38 LaLiga 23/24        38  6  Real Sociedad 38 16
   d  l gf ga g_diff pts
1  8  1 87 26     61  95
2  7  5 79 44     35  85
3  6  7 85 46     39  81
4  4 10 70 43     27  76
5 11  8 61 37     24  68
6 12 10 51 39     12  60
```

6 Expiring Contracts

```
# laliga_expiring <- tm_expiring_contracts(country_name = "Spain", contract_end_year = 2022)
# laliga_expiring
```

7 League Injuries

```
laliga_injuries <- tm_league_injuries(country_name = "Spain")
laliga_injuries |> head()
```

```
  comp_name country
1    LaLiga   Spain
2    LaLiga   Spain
3    LaLiga   Spain
4    LaLiga   Spain
5    LaLiga   Spain
6    LaLiga   Spain
                                                      comp_url
1 https://www.transfermarkt.com/laliga/startseite/wettbewerb/ES1
2 https://www.transfermarkt.com/laliga/startseite/wettbewerb/ES1
3 https://www.transfermarkt.com/laliga/startseite/wettbewerb/ES1
4 https://www.transfermarkt.com/laliga/startseite/wettbewerb/ES1
5 https://www.transfermarkt.com/laliga/startseite/wettbewerb/ES1
6 https://www.transfermarkt.com/laliga/startseite/wettbewerb/ES1
        player_name
1  Arsen Zakharyan
2 Álvaro Odriozola
3  Sheraldo Becker
4    Aitor Paredes
5     Oihan Sancet
6      Dani Vivian
                                                     player_url
1  https://www.transfermarkt.com/arsen-zakharyan/profil/spieler/555143
2 https://www.transfermarkt.com/alvaro-odriozola/profil/spieler/280730
3  https://www.transfermarkt.com/sheraldo-becker/profil/spieler/188888
4    https://www.transfermarkt.com/aitor-paredes/profil/spieler/591916
5     https://www.transfermarkt.com/oihan-sancet/profil/spieler/571020
6      https://www.transfermarkt.com/dani-vivian/profil/spieler/524000
```

```
             position      current_club age nationality second_nationality
1 Attacking Midfield   Real Sociedad  21     Russia               <NA>
2         Right-Back   Real Sociedad  29      Spain               <NA>
3        Left Winger   Real Sociedad  30    Suriname        Netherlands
4        Centre-Back Athletic Bilbao  24      Spain               <NA>
5 Attacking Midfield Athletic Bilbao  24      Spain               <NA>
6        Centre-Back Athletic Bilbao  25      Spain               <NA>
           injury injured_since injured_until player_market_value
1   Muscle injury    2025-03-28          <NA>             1.5e+07
2   Muscle injury    2025-03-29          <NA>             1.2e+06
3   Knee problems    2025-03-14          <NA>             4.0e+06
4 Hamstring injury    2025-03-14          <NA>             2.2e+07
5 Hamstring injury    2025-02-25          <NA>             6.0e+07
6 Hamstring injury    2025-03-07          <NA>             4.0e+07
```

```r
isl_injuries <- tm_league_injuries(country_name = "India")
isl_injuries |> head()
```

```
          comp_name country
1 Indian Super League    India
2 Indian Super League    India
3 Indian Super League    India
4 Indian Super League    India
5 Indian Super League    India
6 Indian Super League    India
                                                              comp_url
1 https://www.transfermarkt.com/indian-super-league/startseite/wettbewerb/IND1
2 https://www.transfermarkt.com/indian-super-league/startseite/wettbewerb/IND1
3 https://www.transfermarkt.com/indian-super-league/startseite/wettbewerb/IND1
4 https://www.transfermarkt.com/indian-super-league/startseite/wettbewerb/IND1
5 https://www.transfermarkt.com/indian-super-league/startseite/wettbewerb/IND1
6 https://www.transfermarkt.com/indian-super-league/startseite/wettbewerb/IND1
    player_name
1     Madih Talal
2    Hijazi Maher
3 Mohammed Kadiri
4     Roy Krishna
5    Akash Mishra
6  Ayush Chhikara
                                                      player_url
1    https://www.transfermarkt.com/madih-talal/profil/spieler/518860
2    https://www.transfermarkt.com/hijazi-maher/profil/spieler/949858
```

```
3 https://www.transfermarkt.com/mohammed-kadiri/profil/spieler/442942
4      https://www.transfermarkt.com/roy-krishna/profil/spieler/64495
5    https://www.transfermarkt.com/akash-mishra/profil/spieler/642347
6  https://www.transfermarkt.com/ayush-chhikara/profil/spieler/761693
            position            current_club age nationality second_nationality
1 Attacking Midfield           East Bengal FC  27      France            Morocco
2        Centre-Back           East Bengal FC  27      Jordan               <NA>
3 Defensive Midfield Mohammedan SC (Kolkata)  29       Ghana               <NA>
4     Centre-Forward                Odisha FC  37        Fiji         New Zealand
5          Left-Back           Mumbai City FC  23       India               <NA>
6     Centre-Forward           Mumbai City FC  22       India               <NA>
                   injury injured_since injured_until player_market_value
1            Knee injury    2024-12-13          <NA>                  NA
2 Cruciate ligament injury    2025-01-29          <NA>                  NA
3 Collateral ligament tear    2024-09-08          <NA>                  NA
4 Cruciate ligament injury    2024-11-25          <NA>                  NA
5 Cruciate ligament injury    2024-04-25          <NA>                  NA
6            Knee injury    2024-03-09          <NA>                  NA
```

8 Team Transfer Data

```r
man_utd_transfer_2020 <- tm_team_transfers(team_url = epl_2020[4], transfer_window = "all")
man_utd_transfer_2020 |> head()
```

```
          team_name          league country season transfer_type
1 Manchester United Premier League England    2020      Arrivals
2 Manchester United Premier League England    2020      Arrivals
3 Manchester United Premier League England    2020      Arrivals
4 Manchester United Premier League England    2020      Arrivals
5 Manchester United Premier League England    2020      Arrivals
6 Manchester United Premier League England    2020      Arrivals
        player_name
1 Donny van de Beek
2        Alex Telles
3 Facundo Pellistri
4     Edinson Cavani
5    Dean Henderson
6      James Garner
                                                       player_url
1 https://www.transfermarkt.com/donny-van-de-beek/profil/spieler/288255
```

```
2         https://www.transfermarkt.com/alex-telles/profil/spieler/255755
3 https://www.transfermarkt.com/facundo-pellistri/profil/spieler/676318
4      https://www.transfermarkt.com/edinson-cavani/profil/spieler/48280
5    https://www.transfermarkt.com/dean-henderson/profil/spieler/258919
6      https://www.transfermarkt.com/james-garner/profil/spieler/505219
     player_position player_age player_nationality      club_2
1   Central Midfield         23        Netherlands        Ajax
2          Left-Back         27             Brazil    FC Porto
3       Right Winger         18            Uruguay     Peñarol
4      Centre-Forward        33            Uruguay    Paris SG
5         Goalkeeper         23            England Man Utd U21
6 Defensive Midfield         19            England Man Utd U21
            league_2    country_2 transfer_fee is_loan transfer_notes window
1         Eredivisie  Netherlands     39000000   FALSE           <NA> Summer
2       Liga Portugal     Portugal     15000000   FALSE           <NA> Summer
3 Liga AUF Clausura      Uruguay      8650000   FALSE           <NA> Summer
4            Ligue 1       France            0   FALSE           <NA> Summer
5    Premier League 2      England           NA   FALSE              - Summer
6    Premier League 2      England           NA   FALSE              - Summer
  in_squad appearances goals minutes_played
1       54          36     1           1460
2       50          24     0           1761
3        2           0     0              0
4       39          39    17           2182
5       61          26     0           2325
6       NA          NA    NA             NA
```