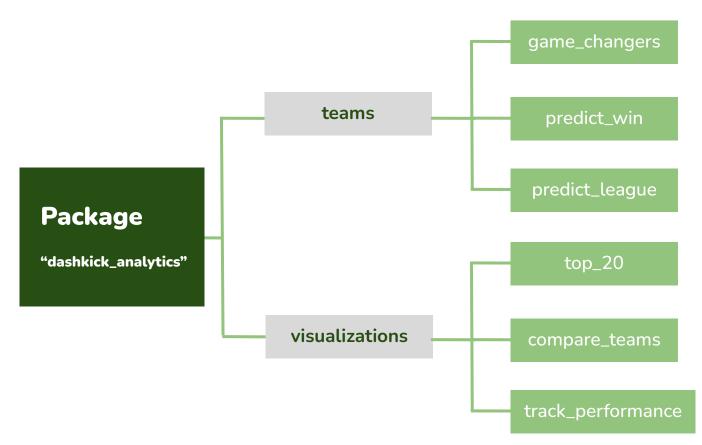
Dashkick analytics



Package Structure



API Selection

The Restful API we chose for this project is <u>API-Football</u>. This soccer API, powered by RapidAPI.com, provides comprehensive real-time and historical information on over 1,000 global leagues and cups. Its integration through RapidAPI.com ensures reliability and seamless implementation for users.

→ Key Features:



Sample Data

Below are snapshots of data we pulled from API-Football (in R):

	PlayerNa	ime Te	eamName	Position	PlayerAge	9	National	ity Appe	arances	MinutesP'	layed	
	Diego da Silva Cos	ta	Wolves	Attacker	35	;	Sp	ain	0		0	
Lucas	Rodrigues Moura da Si	va Tot	ttenham	Attacker	31		Bra	zil	0		0	
Alexander Mark	David Oxlade-Chamberla	in Liv	verpool N	Midfielder	30)	Engl	and	0		0	
	Phil Anthony Jor	es Manchester	United	Defender	31	20	Engl	and	0		0	
	Jesse Ellis Linga	rd Nottingham	Forest N	Midfielder	31		Eng1	and	0		0	
	Manuel Lanz	ni We	est Ham M	Midfielder	30)	Argent	ina	0		0	
João Fi	lipe Iria Santos Moutir	ho	Wolves M	Midfielder	37	,	Portu	iga1	0		0	
	Adama Traoré Dia	ra	Wolves	Attacker	28	3	Sp	ain	4		40	4
	Thomas Dav	es E	Everton N	Midfielder	26	5	Engl	and	3		57	
	James McFarlane McArth	ur Crystal	Palace M	Midfielder	36	5	Scotl	and	0		0	
	Luka Milivojev	ić Crystal	Palace N	Midfielder	32	2	Ser	bia	0		0	
	Andros Darryl Townse	nd E	Everton M	Midfielder	33	3	Eng1	and	12		688	
	Asmir Begov	rić E	Everton (Goalkeeper	36	Bosnia	and Herzegov	ina	0		0	
	Felix Junior Stanis	as Bourn	nemouth N	Midfielder	34	1	Eng1	and	0		0	
	Ciaran Cla	rk Sheffie	eld Utd	Defender	34	Rep	ublic of Irel	and	0		0	
	Jed John Ste	er Astor	n Villa	Goalkeeper	31		Eng1	and	0		0	
	Jack Raymond Colba	ck Nottingham	Forest N	Midfielder	34	1	Eng1	and	0		0	
	Lyle James Alfred Tay	or Nottingham	Forest	Attacker	33	3	Montser	rat	0		0	
	Matthew Ben Longsta	ff Nev	wcastle M	Midfielder	23	3	Eng1	and	0		0	
	Ethan James Wa	dy (chelsea d	Goalkeeper	21		=	USA	0		0	
TotalShots Goa	ls ShotsOnTarget Assist	s YellowCards	RedCards	s GoalsCond	eded Goal	sSaved	TotalPasses k	eyPasses	Accurat	ePasses	TotalTackle	es
0	0 0	0 0	(0	0	0	0	0		0		0
0	0 0	0 0	(0	0	0	0	0		0		0

Comprehensive players data (from the Premier League) with 33 different statistics

Comprehensive fixture data (from the Premier League) with 12 different statistics

	FixtureDate				Stadium	Status				FT_ScoreHome	FT_scoreAway
1	2023-08-11T19:00:00+00:00				Turf Moor	FT	Burnley		FALSE	0	3
2	2023-08-12T11:30:00+00:00	1691839800			Emirates Stadium	FT	Arsenal	Nottingham Forest		2	1
3	2023-08-12T14:00:00+00:00				Vitality Stadium			West Ham	NA	1	1
4	2023-08-12T14:00:00+00:00		The American	Express					TRUE	4	1
5	2023-08-12T14:00:00+00:00				Goodison Park	FT		Fulham	FALSE	0	1
6	2023-08-12T14:00:00+00:00	1691848800			Bramall Lane	FT			FALSE	0	1
7	2023-08-12T16:30:00+00:00	1691857800			St. James' Park	FT		Aston Villa	TRUE	5	1
8	2023-08-13T13:00:00+00:00	1691931600		Gtech	Community Stadium	FT	Brentford	Tottenham	NA	2	2
9	2023-08-13T15:30:00+00:00	1691940600			Stamford Bridge	FT	Chelsea	Liverpool	NA	1	1
1	0 2023-08-14T19:00:00+00:00	1692039600			01d Trafford		Manchester United	Wolves	TRUE	1	0
1	1 2023-08-20T13:00:00+00:00	1692536400			Villa Park	FT	Aston Villa	Everton	TRUE	4	0
1	2 2023-08-21T19:00:00+00:00	1692644400			Selhurst Park	FT	Crystal Palace	Arsenal	FALSE	0	1
1	3 2023-08-19T14:00:00+00:00	1692453600			Craven Cottage	FT	Fulham	Brentford	FALSE	0	3
1	4 2023-08-19T14:00:00+00:00	1692453600			Anfield	FT	Liverpool	Bournemouth	TRUE	3	1
1	5 2023-10-03T18:30:00+00:00	1696357800			Kenilworth Road	FT	Luton	Burnley	FALSE	1	2
1	6 2023-08-19T19:00:00+00:00	1692471600			Etihad Stadium	FT	Manchester City	Newcastle	TRUE	1	0
1	7 2023-08-18T18:45:00+00:00	1692384300			The City Ground	FT	Nottingham Forest	Sheffield Utd	TRUE	2	1
1	8 2023-08-19T16:30:00+00:00	1692462600		Tottenh	am Hotspur Stadium	FT	Tottenham	Manchester United	TRUE	2	0
1	9 2023-08-20T15:30:00+00:00	1692545400			London Stadium	FT	West Ham	Che1sea	TRUE	3	1
2	0 2023-08-19T14:00:00+00:00	1692453600			Molineux Stadium	FT	Wolves	Brighton	FALSE	1	4
2	1 2023-08-26T11:30:00+00:00	1693049400			Vitality Stadium	FT	Bournemouth	Tottenham	FALSE	0	2
2	2 2023-08-26T14:00:00+00:00	1693058400			Emirates Stadium	FT	Arsenal	Fulham	NA	2	2
2	3 2023-08-26T14:00:00+00:00	1693058400		Gtech	Community Stadium	FT	Brentford	Crystal Palace	NA	1	1
2	4 2023-08-26T16:30:00+00:00	1693067400	The American	Express	Community Stadium	FT	Brighton	West Ham	FALSE	1	3
2	5 2023-08-27T13:00:00+00:00	1693141200			Turf Moor	FT	Burnley	Aston Villa	FALSE	1	3
2	6 2023-08-25T19:00:00+00:00	1692990000			Stamford Bridge	FT	Chelsea	Luton	TRUE	3	0
-		********			erration error		=			^	-

Package (dashkick_analytics)

- The dashkick_analytics package is a powerful tool designed to streamline the process of building and analyzing football teams.
- Leveraging advanced analytics and intuitive visualizations, this package aims to provide users with a comprehensive platform for team management, player performance evaluation, and strategic decision-making.

Modules

- teams: The teams module provides essential functions for retrieving the top 20 goal scorers and making predictions of the outcomes and final standings of the 2023 season.
- visualizations: The visualizations module facilitates the creation of an interactive table displaying top goal scorers, spider plots for comparing metrics between two teams, and a line plot depicting individual teams' performance.

Functions

teams:

- game_changers: Pulls the top 20 game changers from the Premier League 2023 season.
- predict_win: Predicts the outcomes of the remaining matches of the 2023 season.
- **predict_league:** Predicts the final league standing of the 2023 season.

visualizations:

- top_20: Displays the top 20 goal scorers in an interactive tabular format.
- **compare_teams:** Create a spider plot to compare performance metrics of two teams.
- track_performance: Illustrates a team's performance over time with a line plot.

Thank You

