

Soccer Prediction

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Introduction

- Every year, big 5 league soccer clubs in Europe spend hundreds million euros to buy players.
- Soccer prediction using players market value.



Barcelona to Paris Saint-Germain €222m (\$331m) in 2017

Data Sources

- Transfermarkt
- X-rates
- Rotowire



<https://www.transfermarkt.co.uk/>

Transfermarkt

- Transfermarkt is a German-based website that has footballing information.
- Estimate market value of player.

tm

NEWS

TRANSFERS & RUMOURS

MARKET VALUES

COMPETITIONS

FORUMS

MY TM

LIVE 5

Search

↑

Compact

Detailed

Gallery

#	Player	Age ↑	Nat.	Club	Market value ↑
1	<div> <div>Kilian Mbappé</div> <div>Right Winger</div> </div>	19			£162.00m ↑
2	<div> <div>Neymar</div> <div>Left Winger</div> </div>	26			£162.00m
3	<div> <div>Lionel Messi</div> <div>Right Winger</div> </div>	31			£162.00m
4	<div> <div>Mohamed Salah</div> <div>Right Winger</div> </div>	26			£135.00m ↑
5	<div> <div>Harry Kane</div> <div>Centre-Forward</div> </div>	25			£135.00m ↑
6	<div> <div>Antoine Griezmann</div> <div>Centre-Forward</div> </div>	27			£135.00m ↑
7	<div> <div>Kevin De Bruyne</div> <div>Attacking Midfield</div> </div>	27			£135.00m ↑
8	<div> <div>Philippe Coutinho</div> <div>Attacking Midfield</div> </div>	26			£135.00m ↑
9	<div> <div>Eden Hazard</div> <div>Left Winger</div> </div>	27			£135.00m ↑
10	<div> <div>Paulo Dybala</div> <div>Second Striker</div> </div>	24			£99.00m ↑
11	<div> <div>Dele Alli</div> <div>Attacking Midfield</div> </div>	22			£90.00m ↑
12	<div> <div>Romelu Lukaku</div> <div>Centre-Forward</div> </div>	25			£90.00m ↑

LATEST TRANSFERS

Player	Transfer	Fee
<div> <div>A. Mitrovic</div> <div>Right-Back</div> </div>	→	- 30.6.2020
<div> <div>Eddie Gomes</div> <div>Centre-Back</div> </div>	→	End of loan
<div> <div>Zé Love</div> <div>Centre-Forward</div> </div>	→	- -
<div> <div>C. Rivera</div> <div>Central Midfield</div> </div>	→	Loan
<div> <div>S. Bassong</div> <div>Centre-Back</div> </div>	→	- -

Complete list >

Data Collection

1. Web scraping using BeautifulSoup.
2. Extract all useful information from 5 leagues (England, Spain, Germany, Italy, France).
3. Process data using pandas and save data into .csv file



Collect Players Data

1. Collect all url of teams.

tm NEWS TRANSFERS & RUMOURS MARKET VALUES COMPETITIONS FORUMS MY TM LIVE 2						Search		
OVERVIEW TABLES TRANSFERS MARKET VALUES PLAYERS CLUBS INFORMATION & FACTS HISTORY NEWS								
CLUBS - PREMIER LEAGUE 18/19								
Club	Squad	Age	Foreigners	Total Market Value	Average Market Value			
Manchester City	26	26,3	21	£982.35m	£37.78m			
Liverpool FC	25	26,4	16	£821.70m	£32.87m			
Chelsea FC	27	27,9	22	£802.58m	£29.73m			
Tottenham Hotspur	26	26,9	19	£753.75m	£28.99m			
Manchester United	26	27,3	19	£751.50m	£28.90m			
Arsenal FC	25	27,1	21	£516.80m	£20.66m			
Everton FC	28	26,1	15	£383.40m	£13.69m			
Leicester City	28	27,5	19	£310.05m	£11.07m			
West Ham United	25	28,3	18	£258.75m	£10.35m			
Southampton FC	25	26,4	13	£239.49m	£9.58m			
Fulham FC	25	26,0	20	£225.45m	£9.02m			
Crystal Palace	26	27,9	17	£197.33m	£7.59m			
Wolverhampton Wanderers	23	25,5	15	£196.20m	£8.53m			
AFC Bournemouth	24	27,4	9	£173.03m	£7.21m			
Burnley FC	24	29,2	11	£163.58m	£6.82m			
Brighton & Hove Albion	24	28,1	18	£159.30m	£6.64m			
Newcastle United	25	27,1	19	£156.80m	£6.26m			
Watford FC	31	27,4	24	£150.93m	£4.87m			

























Fee: Loan

1 / 10 View All

TABLE PREMIER LEAGUE 18/19

#	Club	Matches	+/-	Pts
1	Man City	11	29	29
2	Chelsea	11	19	27
3	Liverpool	11	16	27
4	Spurs	11	9	24
5	Arsenal	11	11	23
6	Bournemouth	11	6	20
7	Man Utd	11	1	20
8	Watford	11	3	19
9	Everton	11	4	18
10	Leicester	11	1	16
11	Wolves	11	-1	15

2. Collect players information (League, Club, Name, Age, Nationality, Market Value)

tm NEWS TRANSFERS & RUMOURS MARKET VALUES COMPETITIONS FORUMS MY TM LIVE 6					
OVERVIEW SQUAD FIXTURES TRANSFERS & RUMOURS INFORMATION & FACTS STADIUM HISTORY NEWS					
Compact Detailed Gallery					
#	Player	Date of Birth (Age)	Nat.	Market value	
31	 Ederson Goalkeeper	Aug 17, 1993 (25)		£54.00m	↑
1	 Claudio Bravo Goalkeeper	Apr 13, 1983 (35)		£3.15m	↓
49	 Arijanet Muric Goalkeeper	Nov 7, 1998 (19)		£450k	↑
5	 John Stones Centre-Back	May 28, 1994 (24)		£49.50m	↑
14	 Aymeric Laporte Centre-Back	May 27, 1994 (24)		£45.00m	■
30	 Nicolás Otamendi Centre-Back	Feb 12, 1988 (30)		£31.50m	■
15	 Eliaquim Mangala Centre-Back	Feb 13, 1991 (27)		£13.50m	■
4	 Vincent Kompany Centre-Back	Apr 10, 1986 (32)		£9.00m	■
34	 Philippe Sandler Centre-Back	Feb 10, 1997 (21)		£2.25m	↑
22	 Benjamin Mendy Left-Back	Jul 17, 1994 (24)		£40.50m	↑
2	 Kyle Walker Right-Back	May 28, 1990 (28)		£45.00m	■
3	 Danilo Right-Back	Jul 15, 1991 (27)		£18.00m	↑

RELATED NEWS

Nov 4, 2018, 5:36 PM

Sizzling City put six past sorry Southampton >

Nov 2, 2018, 4:56 PM

Kevin De Bruyne out for up to six weeks with fresh knee ligament setback >

Oct 30, 2018, 10:13 AM

Riyad Mahrez dedicates Wembley winner to Vichai Srivaddhanaprabha >

Oct 17, 2018, 1:49 PM



Market Values England: Hazard Levels Salah & Kane - Sánchez Drops 13.5 Million >

Aug 9, 2018, 1:22 PM

Preston sign Man City striker Nmecha on loan >

[View All News >](#)

LEAGUE POSITION PREMIER LEAGUE 18/19

#	Club	Matches	+/-	Pts
1	 Man City	11	29	29
2	 Chelsea	11	19	27

Players Data

In [134]: players_data

Out [134]:

	League	Club	Name	Age	Position	Nationality	Market_Value
0	EPL	Manchester City	Ederson	25	Goalkeeper	Brazil	£54.00m
1	EPL	Manchester City	Arijanet Muric	19	Goalkeeper	Kosovo	£450k
2	EPL	Manchester City	Aymeric Laporte	24	Centre-Back	France	£45.00m
3	EPL	Manchester City	Eliaquim Mangala	27	Centre-Back	France	£13.50m
4	EPL	Manchester City	Philippe Sandler	21	Centre-Back	Netherlands	£2.25m
5	EPL	Manchester City	Kyle Walker	28	Right-Back	England	£45.00m
6	EPL	Manchester City	Fernandinho	33	Defensive Midfield	Brazil	£13.50m
7	EPL	Manchester City	Fabian Delph	28	Central Midfield	England	£13.50m
8	EPL	Manchester City	Phil Foden	18	Central Midfield	England	£13.50m
9	EPL	Manchester City	David Silva	32	Attacking Midfield	Spain	£27.00m
10	EPL	Manchester City	Leroy Sané	22	Left Winger	Germany	£81.00m

4123 players.

Need to convert market value to canadian dollar.

X-rates

<https://www.x-rates.com/>

- Provide world currency exchange rate, converters, and historic data.
- Using BeautifulSoup, extract the exchange rate British Pound to Canadian Dollar.

The screenshot displays the X-RATES website interface. At the top, a navigation bar includes links for Home, Currency Calculator, Graphs, Rates Table, Monthly Average, and Historic Lookup. The main header features the X-RATES logo. Below this, the 'Currency Calculator' section is active, showing a configuration for converting 1 British Pound (GBP) to Canadian Dollars (CAD). The result is displayed as 1.704151 CAD, with a timestamp of Nov 05, 2018 15:23 UTC. To the right, a table titled 'Percent Change in the Last 24 Hours' lists various currency pairs and their percentage changes. At the bottom, there are 'Useful Links' for Euro Information, FAQ, and Feedback, and a section for 'Change Currency Calculator base currency' with a list of available currencies.

Home Currency Calculator Graphs Rates Table Monthly Average Historic Lookup

X-RATES™

Home > Currency Calculator

1. Configure Converter

1

GBP - British Pound

CAD - Canadian Dollar

CURRENCY CALCULATOR
British Pound to Canadian Dollar

1.00 GBP =

1.704151 CAD

Nov 05, 2018 15:23 UTC

View GBP Rates Table
View CAD Rates Table
View GBP / CAD Graphs

Percent Change in the Last 24 Hours

EUR/USD	+0.11863%	USD/JPY	-0.08956%
GBP/USD	+0.44199%	USD/CHF	+0.06759%
USD/CAD	-0.19495%	EUR/JPY	+0.02896%
AUD/USD	+0.08175%	CNY/USD	-0.51943%

Nov 05, 2018 15:23 UTC

Useful Links

- Euro Information
- FAQ
- Feedback

Change Currency Calculator base currency

Argentine Peso	Australian Dollar	Bahraini Dinar	Botswana Pula
Brazilian Real	Bruneian Dollar	Bulgarian Lev	Canadian Dollar
Chilean Peso	Chinese Yuan Renminbi	Colombian Peso	Croatian Kuna
Czech Koruna	Danish Krone	Euro	Hong Kong Dollar

Final Players Data

	League	Club	Name	Age	Position	Nationality	Market_Value	Name_en	Club_en	Market_Value_CAD
538	LaLiga	FC Barcelona	Lionel Messi	31	Right Winger	Argentina	£162.00m	Lionel Messi	FC Barcelona	272,274,858.00
2085	Ligue1	Paris Saint-Germain	Kylian Mbappé	19	Right Winger	France	£162.00m	Kylian Mbappe	Paris Saint-Germain	272,274,858.00
2084	Ligue1	Paris Saint-Germain	Neymar	26	Left Winger	Brazil	£162.00m	Neymar	Paris Saint-Germain	272,274,858.00
36	EPL	Chelsea FC	Eden Hazard	27	Left Winger	Belgium	£135.00m	Eden Hazard	Chelsea FC	226,895,715.00
21	EPL	Manchester City	Kevin De Bruyne	27	Attacking Midfield	Belgium	£135.00m	Kevin De Bruyne	Manchester City	226,895,715.00
304	EPL	Tottenham Hotspur	Harry Kane	25	Centre-Forward	England	£135.00m	Harry Kane	Tottenham Hotspur	226,895,715.00
264	EPL	Liverpool FC	Mohamed Salah	26	Right Winger	Egypt	£135.00m	Mohamed Salah	Liverpool FC	226,895,715.00
558	LaLiga	Atlético Madrid	Antoine Griezmann	27	Centre-Forward	France	£108.00m	Antoine Griezmann	Atletico Madrid	181,516,572.00
537	LaLiga	FC Barcelona	Philippe Coutinho	26	Attacking Midfield	Brazil	£108.00m	Philippe Coutinho	FC Barcelona	181,516,572.00
1535	SerieA	Juventus FC	Paulo Dybala	24	Second Striker	Argentina	£99.00m	Paulo Dybala	Juventus FC	166,390,191.00
301	EPL	Tottenham Hotspur	Dele Alli	22	Attacking Midfield	England	£90.00m	Dele Alli	Tottenham Hotspur	151,263,810.00
1533	SerieA	Juventus FC	Cristiano Ronaldo	33	Left Winger	Portugal	£90.00m	Cristiano Ronaldo	Juventus FC	151,263,810.00
65	EPL	Manchester United	Romelu Lukaku	25	Centre-Forward	Belgium	£90.00m	Romelu Lukaku	Manchester United	151,263,810.00
1795	SerieA	Inter Milan	Mauro Icardi	25	Centre-Forward	Argentina	£85.50m	Mauro Icardi	Inter Milan	143,700,619.50
60	EPL	Manchester United	Paul Pogba	25	Central	France	£81.00m	Paul Pogba	Manchester United	136,137,429.00

Sorted by market value

Collect Results of all matches in this season.

1. Collect url of the matches

tm NEWS TRANSFERS & RUMOURS MARKET VALUES COMPETITIONS FORUMS MY TM LIVE 6 Search Q ↑									
OVERVIEW TABLES ▾ TRANSFERS ▾ MARKET VALUES ▾ PLAYERS ▾ CLUBS ▾ INFORMATION & FACTS ▾ HISTORY ▾ NEWS									
1.MATCHDAY					2.MATCHDAY				
Date	Time	Home Team	Result	Away Team	Date	Time	Home Team	Result	Away Team
Fri Aug 10, 2018	8:00 PM	(7.) Man Utd	2:1	Leicester (10.)	Sat Aug 18, 2018	12:30 PM	(17.) Cardiff	0:0	Newcastle (14.)
Sat Aug 11, 2018	12:30 PM	(17.) Newcastle	1:2	Spurs (4.)		3:00 PM	(13.) Leicester	2:0	Wolves (10.)
	3:00 PM	(20.) Huddersfield	0:3	Chelsea (2.)			(20.) West Ham	1:2	Bournemouth (5.)
		(6.) Bournemouth	2:0	Cardiff (18.)			(9.) Everton	2:1	Southampton (12.)
		(19.) Fulham	0:2	Crystal Palace (14.)			(8.) Spurs	3:1	Fulham (18.)
		(8.) Watford	2:0	Brighton (12.)		5:30 PM	(2.) Chelsea	3:2	Arsenal (15.)
	5:30 PM	(11.) Wolves	2:2	Everton (9.)	Sun Aug 19, 2018	1:30 PM	(11.) Burnley	1:3	Watford (6.)
Sun Aug 12, 2018	1:30 PM	(3.) Liverpool	4:0	West Ham (13.)			(3.) Man City	6:1	Huddersfield (19.)
		(16.) Southampton	0:0	Burnley (15.)		4:00 PM	(16.) Brighton	3:2	Man Utd (7.)
	4:00 PM	(5.) Arsenal	0:2	Man City (1.)	Mon Aug 20, 2018	8:00 PM	(4.) Crystal Palace	0:2	Liverpool (1.)
3.MATCHDAY					4.MATCHDAY				
Date	Time	Home Team	Result	Away Team	Date	Time	Home Team	Result	Away Team
Sat Aug 25, 2018	12:30 PM	(14.) Wolves	1:1	Man City (1.)	Sat Sep 1, 2018	12:30 PM	(7.) Leicester	1:2	Liverpool (1.)
	3:00 PM	(17.) Arsenal	3:1	West Ham (19.)		3:00 PM	(8.) Everton	1:1	Huddersfield (19.)
		(20.) Huddersfield	0:0	Cardiff (16.)			(12.) Brighton	2:2	Fulham (11.)

2. Collect the starting lineup

tm NEWS TRANSFERS & RUMOURS MARKET VALUES COMPETITIONS FORUMS MY TM LIVE 6 Search

MATCH SHEET LINE-UPS STATISTICS CLUB COMPARISON MATCHDAY OVERVIEW LIVE COMMENTARY


TIMELINE

0 45 90

LINE-UPS

Manchester United

Starting Line-up: 4-1-4-1




Substitutes:

13	Lee Grant	GK
12	Chris Smalling	CB
27	Marouane Fellaini	CM
39	Scott McTominay	CM
18	Ashley Young	LB
9	Romelu Lukaku	CF
11	Anthony Martial	LW

Manager: José Mourinho

Leicester City

Starting Line-up: 4-4-2 double 6



Substitutes:

12	Danny Ward	GK
6	Jonny Evans	CB
28	Christian Fuchs	LB
11	Marc Albrighton	LM
21	Vicente Iborra	DM
31	Rachid Ghezzal	RW
9	Jamie Vardy	CF

Manager: Claude Puel

GOALS

Result Data

Add all market values of the players for each lineup.

Let Result : homewin = 1 , draw = 0, visitwin = -1

	League	Home	Visit	Lineup_Home	Lineup_Visit	Score	Diff	Lineup_Home_Value	Lineup_Visit_Value	Result
0	EPL	Manchester United	Leicester City	[David de Gea, Victor Lindelöf, Eric Bailly, L...	[Kasper Schmeichel, Wes Morgan, Harry Maguire,...	2:1	1	682,199,783.10	332,780,382.00	1
1	EPL	Newcastle United	Tottenham Hotspur	[Martin Dubravka, Ciaran Clark, Jamaal Lascel...	[Hugo Lloris, Jan Vertonghen, Davinson Sánchez...	1:2	-1	139,919,024.25	857,665,802.70	-1
2	EPL	AFC Bournemouth	Cardiff City	[Asmir Begovic, Nathan Aké, Steve Cook, Charli...	[Neil Etheridge, Sean Morrison, Bruno Ecuele M...	2:0	2	162,608,595.75	62,774,481.15	1
3	EPL	Fulham FC	Crystal Palace	[Fabri, Maxime Le Marchand, Calum Chambers, Jo...	[Wayne Hennessey, Mamadou Sakho, James Tomkins...	0:2	-2	242,022,096.00	208,744,057.80	-1
4	EPL	Watford FC	Brighton & Hove Albion	[Ben Foster, Craig Cathcart, Christian Kabasel...	[Mathew Ryan, Shane Duffy, Lewis Dunk, Bernard...	2:0	2	145,969,576.65	131,221,355.17	1
5	EPL	Huddersfield Town	Chelsea FC	[Ben Hamer, Terence Kongolo, Zanka, Christophe...	[Kepa, Antonio Rüdiger, David Luiz, Marcos Alo...	0:3	-3	111,178,900.35	756,319,050.00	-1
6	EPL	Wolverhampton Wanderers	Everton FC	[Rui Patrício, Ryan Bennett, Willy Boly, Conor...	[Jordan Pickford, Michael Keane, Phil Jagielka...	2:2	0	230,677,310.25	357,738,910.65	0
7	EPL	Liverpool FC	West Ham United	[Alisson, Virgil van Dijk, Joe Gomez, Andrew R...	[Lukasz Fabianski, Angelo Ogbonna, Fabián Balb...	4:0	4	965,063,107.80	222,357,800.70	1
8	EPL	Southampton FC	Burnley FC	[Alex McCarthy, Wesley Hoedt, Jannik Vestergaa...	[Joe Hart, Ben Mee, James Tarkowski, Stephen W...	0:0	0	217,819,886.40	154,289,086.20	0
9	EPL	Arsenal FC	Manchester City	[Petr Cech, Sokratis, Shkodran Mustafi, Ainsle...	[Ederson, Aymeric Laporte, John Stones, Benjam...	0:2	-2	524,885,420.70	915,146,050.50	-1

```
In [39]: match_list_value['Result'].value_counts()
```

```
Out [39]: 1    206
          -1   150
           0    125
          Name: Result, dtype: int64
```

481 matches

Multinomial Logistic Regression

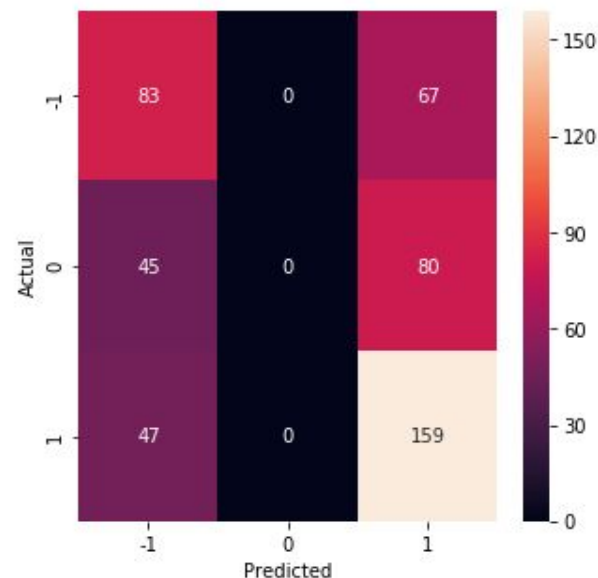
Accuracy_score = 0.5031185031185031

Homewin :

Accuracy_score where the predicted probability > 0.5
= 0.7155963302752294

Visit win:

Accuracy_score where the predicted probability > 0.5
= 0.6451612903225806





<https://www.rotowire.com/>

Rotowire

Update expected lineup and confirmed lineup for upcoming matches of the week.

EPL LINEUPS

Starting lineups for November 1, 2018 - November 6, 2018

LEAGUE

EPL

Ligue 1

La Liga

Serie A

Bundesliga

MLS

UCL

Liga MX

DISPLAY PREFERENCE

Standard

Compact

Simple

Yes

No

HIDE GAMES THAT HAVE STARTED

November 3 8:30 AM ET

BOU

MUN

AFC Bournemouth

Manchester United

Expected Lineup

Expected Lineup

G A. Begovic

G David de Gea

D Nathan Ake

D C. Smalling

D S. Francis

D Luke Shaw

D Steve Cook

D V. Lindelof

D C. Daniels

M/D Ashley Young

M/D Adam Smith

M Paul Pogba

M Ryan Fraser

M N. Matic

M J. Lerma

M Fred

M Lewis Cook

F M. Rashford

M David Brooks

F A. Martial

F C. Wilson

F R. Lukaku

November 3 11:00 AM ET

CC

LEI

Cardiff City

Leicester City

Expected Lineup

Expected Lineup

G N. Etheridge

G K. Schmeichel

D J. Bennett

D H. Maguire

D S. Bamba

D Wes Morgan

D S. Morrison

D Ben Chilwell

D B. Ecuele Manga

M/D R. Pereira

M V. Camarasa

M V. Iborra

M J. Hoollett

M M. Albrighton

M A. Gunnarsson

M W. Ndidi

M Josh Murphy

F/M J. Maddison

F/M C. Paterson

F K. Iheanacho

F Bobby Reid

F Jamie Vardy

November 3 11:00 AM ET

EVE

BHA

Everton

Brighton & Hove Albion

Expected Lineup

Expected Lineup

G J. Pickford

G Mathew Ryan

D M. Keane

D Shane Duffy

D Lucas Digne

D Bruno

D Kurt Zouma

D Gaetan Bong

D S. Coleman

D Lewis Dunk

M Bernard

M D. Stephens

M G. Sigurdsson

M Beram Kayal

M I. Gueye

M S. March

M Andre Gomes

F/M J. Izquierdo

F/M Richarlison

F A. Jahanbakhsh

F/M Theo Walcott

F Glenn Murray

November 3 11:00 AM ET

WHU

BUR

West Ham United

Burnley

Expected Lineup

Expected Lineup

G L. Fabianski

G Joe Hart

D P. Zabaleta

D M. Lowton

D A. Ogbonna

D Ben Mee

November 3 11:00 AM ET

NEW

WAT

Newcastle United

Watford

Expected Lineup

Expected Lineup

G M. Dubravka

G Ben Foster

D J. Lascelles

D C. Cathcart

D F. Fernandez

D A. Mariappa

Collect lineup and calculate the value

OUT [124] :

	League	Time	Home	Visit	Confirmed/Expected	Lineup_Home	Lineup_Visit	Lineup_Home_Value	Lineup_Visit_Value
0	EPL	November 3 8:30 AM ET	AFC Bournemouth	Manchester United	Expected Lineup	[G]nA. Begovic, D]nNathan Ake, D]nS. Francis, ...	[G]nDavid de Gea, D]nC. Smalling, D]nLuke Shaw...	202,693,505.40	821,362,488.30
1	EPL	November 3 11:00 AM ET	Cardiff City	Leicester City	Expected Lineup	[G]nN. Etheridge, D]nJ. Bennett, D]nS. Bamba, ...	[G]nK. Schmeichel, D]nWes Morgan, D]nH. Maguir...	74,119,266.90	322,191,915.30
2	EPL	November 3 11:00 AM ET	Everton	Brighton & Hove Albion	Expected Lineup	[G]nJ. Pickford, D]nS. Coleman, D]nM. Keane, D...	[G]nMathew Ryan, D]nShane Duffy, D]nBruno, D]n...	385,722,715.50	120,632,888.47
3	EPL	November 3 11:00 AM ET	West Ham United	Burnley	Expected Lineup	[G]nL. Fabianski, D]nP. Zabaleta, D]nA. Ogbonn...	[G]nJoe Hart, D]nM. Lowton, D]nBen Mee, D]nJ. ...	216,307,248.30	151,263,810.00
4	EPL	November 3 11:00 AM ET	Newcastle United	Watford	Expected Lineup	[G]nM. Dubravka, D]nJ. Lascelles, D]nF. Fernan...	[G]nBen Foster, D]nC. Cathcart, D]nA. Mariappa...	156,558,043.35	119,498,409.90
5	EPL	November 3 1:30 PM ET	Arsenal	Liverpool	Expected Lineup	[G]nBernd Leno, D]nS. Mustafi, D]nS. Lichtstel...	[G]nAlisson, D]nT. Alexander-Arnold, D]nJoe Go...	580,096,711.35	738,167,392.80

48 games

Apply Logistic Regression Model for Prediction

	League	Time	Home	Visit	Confirmed/Expected	Lineup_Home	Lineup_Visit	Lineup_Home_Value	Lineup_Visit_Value	Result_pred	Home_win_pred_prob	Draw_pred_prob	Visit_win_pred_prob
0	EPL	November 3 8:30 AM ET	AFC Bournemouth	Manchester United	Expected Lineup	[G\nA. Begovic, D\nNathan Ake, D\nS. Francis, ...	[G\nDavid de Gea, D\nC. Smalling, D\nLuke Shaw...	202,693,505.40	821,362,488.30	-1	0.15	0.18	0.68
1	EPL	November 3 11:00 AM ET	Cardiff City	Leicester City	Expected Lineup	[G\nN. Etheridge, D\nJ. Bennett, D\nS. Bamba, ...	[G\nK. Schmeichel, D\nWes Morgan, D\nH. Maguir...	74,119,266.90	322,191,915.30	-1	0.25	0.27	0.47
2	EPL	November 3 11:00 AM ET	Everton	Brighton & Hove Albion	Expected Lineup	[G\nJ. Pickford, D\nS. Coleman, D\nM. Keane, D...	[G\nMathew Ryan, D\nShane Duffy, D\nBruno, D\n...	385,722,715.50	120,632,888.47	1	0.57	0.28	0.15
3	EPL	November 3 11:00 AM ET	West Ham United	Burnley	Expected Lineup	[G\nL. Fabianski, D\nP. Zabaleta, D\nA. Ogborn...	[G\nJoe Hart, D\nM. Lowton, D\nBen Mee, D\nJ. ...	216,307,248.30	151,263,810.00	1	0.43	0.31	0.26
4	EPL	November 3 11:00 AM ET	Newcastle United	Watford	Expected Lineup	[G\nM. Dubravka, D\nJ. Lascelles, D\nF. Fernan...	[G\nBen Foster, D\nC. Cathcart, D\nA. Mariappa...	156,558,043.35	119,498,409.90	1	0.40	0.32	0.28
5	EPL	November 3 1:30 PM ET	Arsenal	Liverpool	Expected Lineup	[G\nBernd Leno, D\nS. Mustafi, D\nS. Lichtste...	[G\nAlisson, D\nT. Alexander-Arnold, D\nJoe Go...	580,096,711.35	738,167,392.80	1	0.46	0.24	0.31
						[G\nRui...	[G\nH...						

Select the predicted probability is greater than 0.8

League	Time	Home	Visit	Confirmed/Expected	Lineup_Home	Lineup_Visit	Lineup_Home_Value	Lineup_Visit_Value	Result_pred	Home_win_pred_prob	Draw_pred_prob	Visit_win_pred_prob
7	EPL	November 4 10:00 AM ET	Manchester City	Southampton	Expected Lineup	[GlnA. McCarthy, DlnJ. Stephens, DlnR. Bertran...	900,019,669.50	214,794,610.20	1	0.82	0.15	0.03
8	EPL	November 4 11:00 AM ET	Chelsea	Crystal Palace	Expected Lineup	[GlnK. Arrizabalaga, DlnA. Rudiger, DlnDavid L...	945,398,812.50	189,079,762.50	1	0.84	0.14	0.02
11	LaLiga	November 3 11:15 AM ET	Real Madrid	Valladolid	Expected Lineup	[GlnT. Courtois, DlnSergio Ramos, DlnNacho, Dln...	818,337,212.10	22,840,835.31	1	0.82	0.15	0.02
13	LaLiga	November 3 3:45 PM ET	Rayo Vallecano	Barcelona	Expected Lineup	[GlnA. Garcia Cabrera, DlnAlex Moreno, DlnL. A...	49,312,002.06	966,575,745.90	-1	0.06	0.11	0.83
39	Ligue1	November 2 3:45 PM ET	Paris Saint-Germain	Lille	Expected Lineup	[GlnG. Buffon, DlnMarquinhos, DlnJuan Bernat, ...	1,022,543,355.60	142,187,981.40	1	0.87	0.12	0.01

All prediction is correct!

Summary / Next Step

- Compare predicted probability to the betting odds.
- Difficult to predict results only using players value.
- Find other variable to improve prediction accuracy.

