

Why this dataset?

• I've always loved sports and have wanted to do a project like this.

 When I found this dataset, I knew it was the perfect opportunity for me.





ENGLISH PREMIER LEAGUE



20 teams



Each team plays 38 games whereas in NBA teams play 82





There are no playoffs



	Pos		Club	P	GD	Pts
	1		Man City	37	60	88
	2		Arsenal	37	61	86
	3		Liverpool	37	43	79
	4	AVEC	Aston Villa	37	20	68
	5	è	Spurs	37	10	63
	6	(8)	Chelsea	37	13	60
	7		Newcastle	37	21	57
	8	0	Man Utd	37	-3	57
	9	X	West Ham	37	-12	52
	10		Brighton	37	-5	48
	11	8	Bournemouth	37	-12	48
	12	X	Crystal Palace	37	-6	46
	13		Wolves	37	-13	46
	14	8	Fulham	37	-8	44
	15	8	Everton	37	-10	40
	16	1	Brentford	37	-7	39
	17	Ö	Nott'm Forest	37	-19	29
	18		Luton	37	-31	26
	19		Burnley	37	-36	24
	20		Sheffield Utd	37	-66	16
	*Everton de	educted six point	s following a breach of the Premier League's Profitability and Sustainability Dules			



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Bottom 3 teams are relegated

*Everton deducted six points following a breach of the Premier League's Profitability and Sustainability Rules
*Nottingham Forest deducted four points following a breach of the Premier League's Profitability and Sustainability Rules

Players can't be traded without their permission/consent

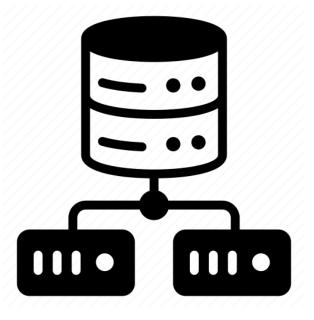


Dataset

- Seasons covered 93-94 to the current
- Each season's data is stored in a separate csv file

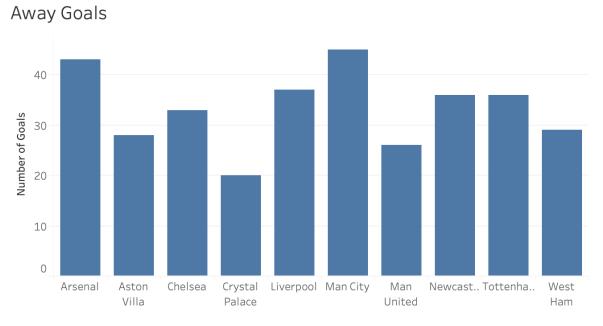
Match-level Statistics:

- Full-time & Half-time goals
- Attempted shots, Shots on target
- Yellow and Red Cards
- Fouls, Corners 123

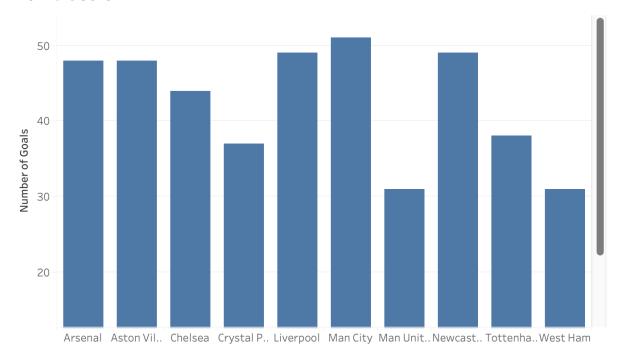




23-24 Season

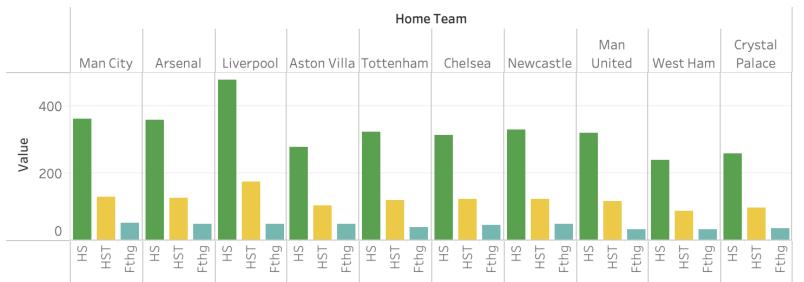


Home Goals





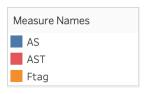
Home Goals Accuracy



HS HST Fthg

Away Goals Accuracy

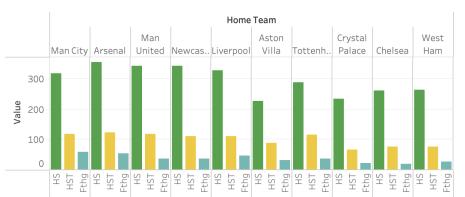




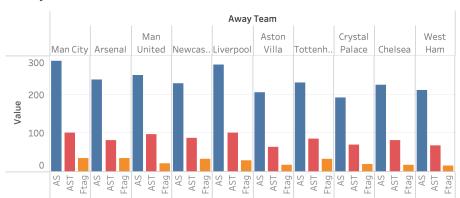
Measure Names

Team	Shot Accuracy(%)	Shot Efficiency(%)	Rank
Man City	40.289855	13.913043	4
Arsenal	34.550989	13.850837	5
Liverpool	35.063291	10.886076	13
Aston Villa	36.964981	14.785992	2
Tottenham	36.769759	12.714777	7
Chelsea	39.233577	14.051095	3
Newcastle	38.656987	15.426497	1
Man United	35.090909	10.363636	15
West Ham	33.33333	13.333333	6
Crystal Palace	37.061404	12.500000	8

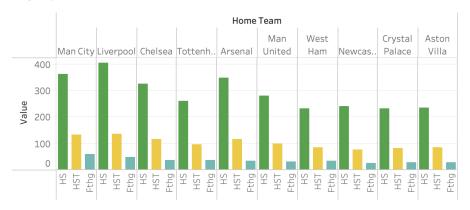
Home 22-23



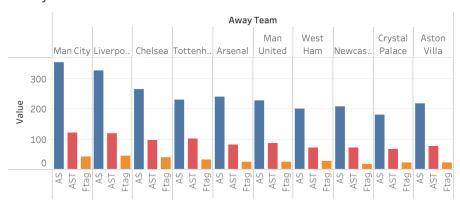
Away 22-23



Home 21-22



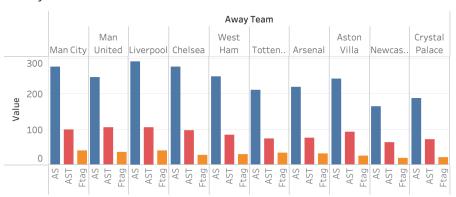
Away 21-22



Home 20-21

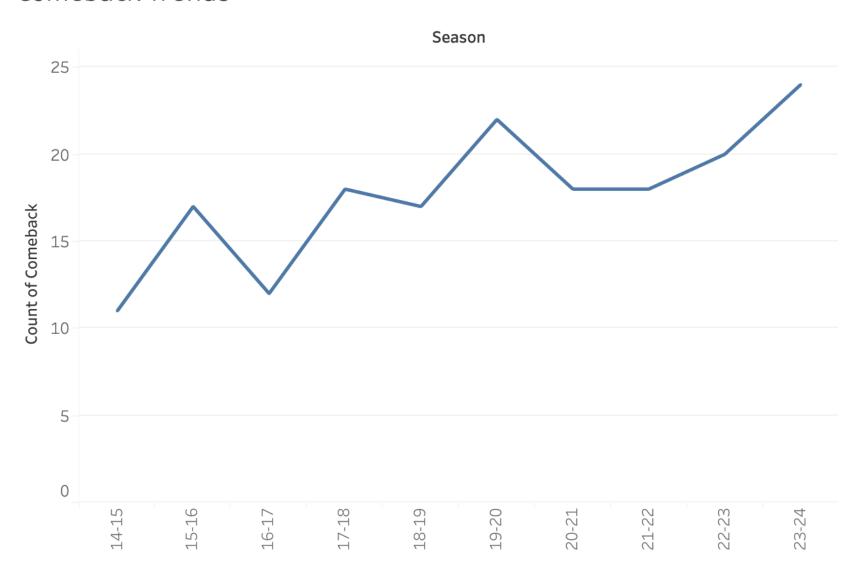


Away 20-21





Comeback Trends



PREMIER LEAGUE - Regression PREMIER LEAGUE - PREMIER LEAG

Please enter the match details: Enter home team name: Chelsea Enter away team name: Arsenal

The match will end in a draw with a score of 1 - 1

Evaluation Metrics

Home Team Evaluation:

RMSE: 0.8391132537575478 R²: 0.6024273625926737

Away Team Evaluation:

RMSE: 0.7774088201739228

R2: 0.5966881562407571

Cross Validation

Home Team Cross-Validation (R2):

Mean R²: 0.5816639965826267

Standard Deviation of R2: 0.014922501916495577

Away Team Cross-Validation (R2):

Mean R²: 0.5624417913003865

Standard Deviation of R2: 0.027739919359555814

References/Links

Dataset:

https://datahub.io/core/english-premier-league

https://github.com/datasets/football-

datasets/tree/main/datasets/premier-league



https://ayushnelli03.github.io/DataStory/

