

FIFA 2018 Player Data Analysis Data Visualization Using Power BI

April 29, 2025

Submitted By: Alex Kyeremateng Botwe





Topics							
Project Objective	4						
Top 10 Countries with Most Players	6						
Player Improvement	7						
Wages of Offensive Players	8						
Top 5 Players for every Preferred Position (Overall)	9						
Top 5 Players for every Preferred Position (Potential)	12						
Clubs with Maximum share of players from England, Spain and Germany	15						
Wages vs Potential of Players	18						
Strikers and Defenders vs Aggression	19						
Positional Data vs Roles/Classes	21						
Top 10 Clubs with Best Future Players	22						
Wages of Players vs Best Club	23						





No.	Name of Figure							
1	Top 10 Countries with Most Players	6						
2	Top 10 Countries with Most Players							
3	Overall Rating vs Age of Players	7						
4	Average wage of Offensive Players	8						
5	Maximum wage of Offensive Players	8						
6	Average wage vs Potential	18						
7	Wage vs Potential	18						
8	Strikers and Defenders vs Aggression	19						
9	Potential Data vs Roles/Classes	21						
10	Top 10 Clubs with Best Future Players	22						
11	Wages of Players vs Best Club	23						

Project Objective



Analyze FIFA 2018 player data to uncover insights into player evaluation, wage strategies, and future talent identification. Simulate data driven decision making similar to that of a football manager.

Key Areas Explored

Player Profiling by Position:

Differentiating physical and technical strengths across roles

Future Star Scouting:

Clubs with the highest potential young players

Wage Distribution Analysis:

Wage structure comparisons across elite clubs.

Project Objective (cont.)



Outcome

- Deliver actionable insights for club strategy in scouting, wage management, and squad development.
- Strengthen the understanding of data driven football management.

Top 10 Countries with Most Players



Top 10 Countries Producing Most Players							
Nationality	Count of Name ▼						
England	1630						
Germany	1140						
Spain	1019						
France	978						
Argentina	965						
Brazil	812						
Italy	799						
Colombia	592						
Japan	469						
Netherlands	429						
Total	8833						

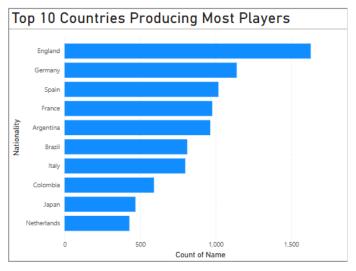


Fig. 1

Fig. 2

Fig. 1 shows rank ordered list of top 10 countries with most players. It is observed in Fig 2 that England produces the most numbers of footballers that play at this level followed by Germany, then closely by Spain.

Player Improvement



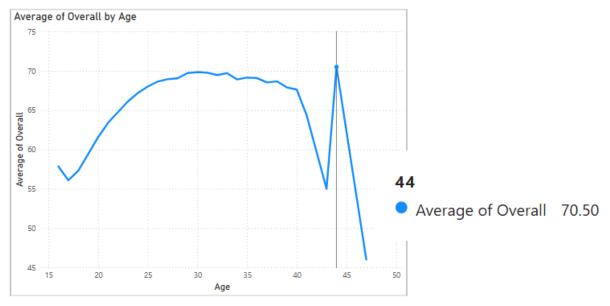
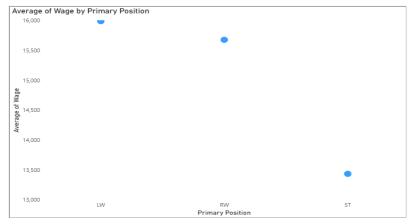


Fig 3: Overall Rating vs Age of Players

A player peaks at the age of 44yrs and stops improving at an average of overall rating of 70.5

Wages of Offensive Players







Primary Position	Average of Wage
LW	15,990.52
RW	15,678.40
ST	13,435.65

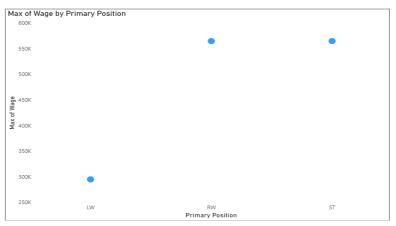


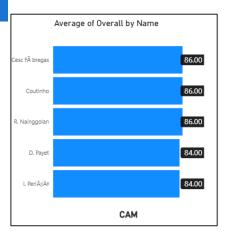
Fig 5: Maximum wage of Offensive Players

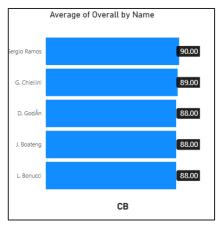
Primary Position	Max of Wage
LW	295,000.00
RW	565,000.00
ST	565,000.00

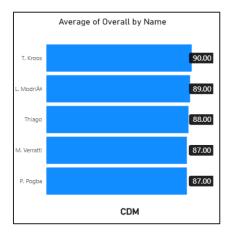
- The left-winger tends to be paid the most with an average salary of almost \$16K followed by the right-winger with a salary of \$15.68K. The least paid player is the striker with an average salary of \$13.4K
- The striker and right-winger are paid equally with a maximum amount of 565K dollars whereas left-winger is paid only 295K dollars

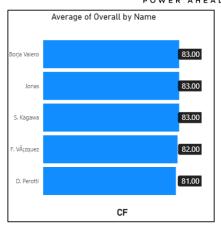
Top 5 Players for every Preferred Position (Overall)

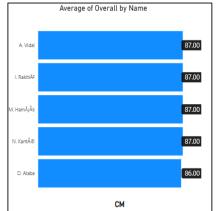


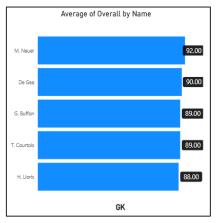


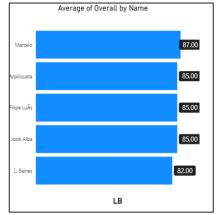


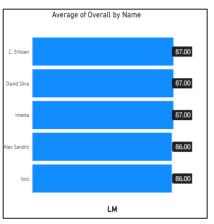






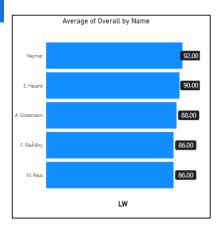


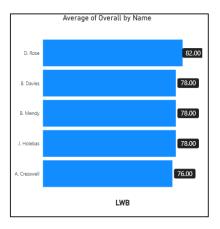


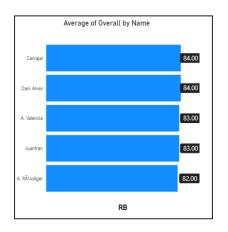


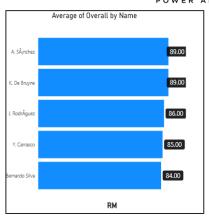
Top 5 Players for every Preferred Position (Overall)

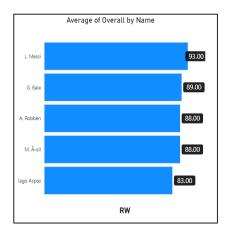


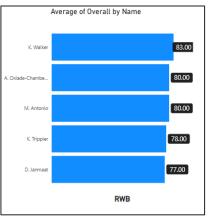


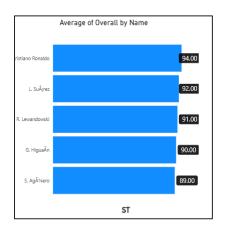












10



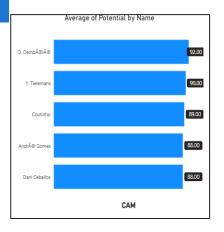
OBSERVATIONS

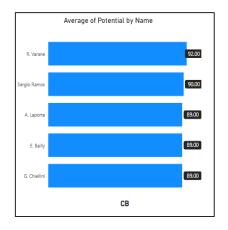
base on their point ratings.

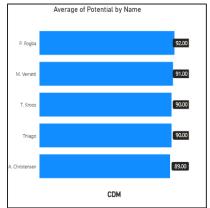
Ιh	e above visuals show the Top 5 players for every preferred position in terms of average overall.
	Cristiano Ronaldo is in the Top 5 for ST (Striker) with the highest overall rating of 94
	Players like Neymar, Cristiano Ronaldo, L Messi, Sergio Romos and M. Neuer showed outstanding ratings of 90 and above overall in their preferred positions
	Players like Cesc FA bregas, Borja Valero, A. Vadal, Marcelo, C Eriksen, D. Rosa, Carvajal and K. Walker although dominated their main position had ratings lower than 80
	Ronaldo, Messi and Neyman are the clearest examples of players officially ranked top overall in 2018

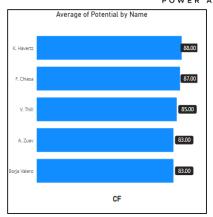
Top 5 Players for every Preferred Position (Potential)

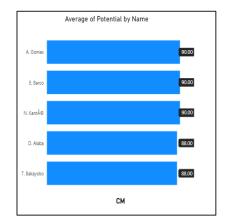


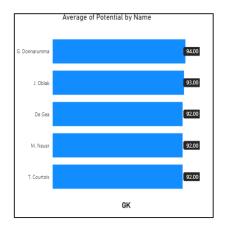


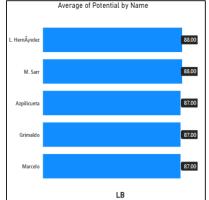


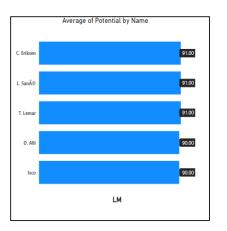






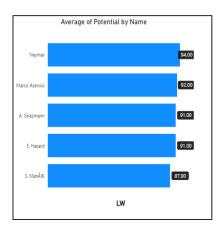


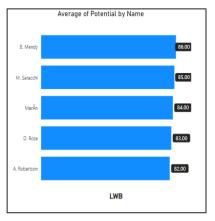


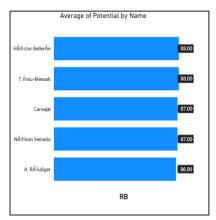


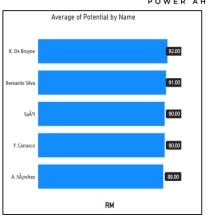
Top 5 Players for every Preferred Position (Potential)

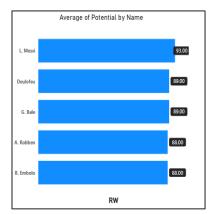


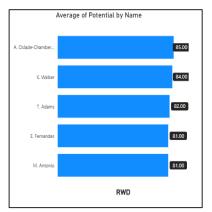


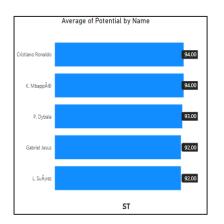














OBSERVATIONS

	e above visuals show the Top 5 players for every preferred position in terms of average potential nich gives us a clear indication of who were considered the future superstars in the year.
	Kylian Mbappé (ST) and Cristiano Ronaldo : With a potential rating of 94, are clearly highlighted as a player with the highest ceiling.
	Neymar (LW): His potential of 94 also places him among the top talents expected to achieve greatness.
	Ousmane Dembélé (RW), Gianluigi Donnarumma (GK), Matthijs de Ligt (CB) with ratings above 90 suggests they were seen as having immense future ability.
	Based on the Potential Ratings, players like Kylian Mbappé, Neymar, Ousmane Dembélé, Gianluigi Donnarumma, and Matthijs de Ligt were most likely considered the top candidates to become the future superstars in the year

Clubs with Maximum share of players from England



Count of Name	and First Na	ationality by C	lub													Club	Count of Name	First Nationality
Bolton Wander	Portsmouth	Bournemouth	Forest Green	Sheffield Uni	Prest	Walsal		a 1	Wyco			Char	dia.	Chelt		Bolton Wanderers	24	England
									8.00							Shrewsbury		England
24	22	20	19	19												Burton Albion		England
MATERIAL PROPERTY AND ADDRESS OF THE PARTY AND	EST CONTROL CONTROL	Fleetwood T	Gillingham	Stevenage												Chesterfield		England
Shrewsbury	Bradford City	rieetwood 1	Omargnam		18	18			18			17		17		Colchester United	22	England
				19	Northan	mot E	loch	Asto.	. Bury	Evert	Hud	Ma		Nott	Plym	Exeter City	22	England
24	21	20	19	Swindon Town	A CONTRACTOR				and the same		-	1000				Mansfield Town	22	England
Burton Albion	Doncaster Ro	Millwall	Luton Town	Sitting of town	17											Port Vale	22	England
				19												Portsmouth	22	England
	.04	20	19		Queens	Par		15	15	15	15	15		15	15	Bradford City	21	England
	210		Milton Keyn	Birmingham			iverpox	1 6	rystal Pa	I Ars	e Bre		lan	Mot		Doncaster Rovers	21	England
Chesterfield	Ipswich Town	Morecambe	Million Keyn	18	17		iverpo			Ais	e Die	N	ian	WOLL		Ipswich Town	21	England
			120	-	Sountho	тр 1	4		3		-					Lincoln City	21	England
22	21	20	19	Bristol City			lewcas		Hull City	11	11	11	į .	11	31	AFC Wimbledon	20	England
Colchester Uni	Lincoln City	Oxford United	Newport Co	18	17		vewcas			Old	VAC	est V	Volv.	155	Rea	Barnet	20	England
	STATE OF STATE OF			CONTRACTOR OF THE PARTY OF THE	Southar	net 1		B.	3	_		-5100		M. Holand	Nea	Barnsley	20	England
		20	19	Bristol Rovers			underl		.eicester						920	Bournemouth		England
Contract of the last of the la	21		Notts County	18	177	i i	unaen.	ario L		11	11	1	1	10	10	Fleetwood Town		England
Exeter City	AFC Wimble	Blackpool	Notes County		PERMIT		4		heffield	Swa	ins	10				Millwall		England
			-200	Coventry City	Souther	10	ottenh			100						Morecambe		England
22	20	19	19	200			ottenn.			10	- 8		0	2 1		Oxford United		England
Mansfield Town	Barnet	Cambridge	Peterborou	18	17	1	4	- 15	toke City	/ Fail	iam \	/ite	Pa			Blackpool		England
				Crewe Alexa	Blackbu	m		-					Ph			Cambridge United		England
	20	10	19	1000			ardiff (-my	West Bro.	The same	-			┞┸		Carlisle United		England
200000000000000000000000000000000000000	5000 00	W. C. A. A. S. C.	BOTH STREET, S	18	16			- 2		Lee	ds		Sli			Forest Green		England
Port Vale	Barnsley	Carlisle Unit	Rotherham	Grimsby Town	Derby C		rawley	т	To the same of the same of	1000	- F					Gillingham		England
								,	eovil To	vn Wa	tford					Luton Town		England
22	20	19	19	18	107	1	3	100			100					Total		England

- Bolton Wanderers has 24 players whose first nationality is England.
- ☐ Shrewsbury also has 24 players whose first nationality is England.

These two clubs have the highest count of players from England.

Clubs with Maximum share of players from Spain





☐ CA Osasuna has 27 players whose first nationality is Spain.

This is the highest count shown in the table for players with Spanish nationality, indicating that CA Osasuna has the maximum number of players from Spain among the clubs listed

Clubs with Maximum share of players from Germany



Holstein Kiel	Hallescher FC		SG Dynamo Dre	SV Wehen Wiesba	Hannov	1. FC K	Fortun	MSV D	SG Son	SpVgg	SV Dar
	23		21	20							
SSV Jahn Regensb	Karlsruher SC	VfL Bochum	VfL Osnabr¼ck	VfR Aalen	18	17	17	17	17	17	17
				20	TSG 1899 I		lambur	VfL Wolf	1. FC Ka	Bayer 0	Hertha
23	23	22	21	Würzburger FV							
1. FC Magdeburg	SpVgg Unterhachi	1. FC Heidenheim	DSC Arminia Bie		17						
				20	1. FC NÃ1/4	rnb		16	15		15
	23	21	20	FC St. Pauli		R	B Leipzig	VfB Stut		SV W	CS R.
Chemnitzer FC	SV Meppen	Hansa Rostock	Rot-WeiĀŸ Erfurt	0.00	16					100	
				19	1. FC Unio	n B 1	5	12			
23	23	21	20	Werder Bremen II				BrĀ,n	Ars		
FC Carl Zeiss Jena	FC Erzgebirge Aue	SC Freiburg	SC Fortuna K¶in	19	16						
				Eintracht Braunsc	Borussia D	STATE OF THE PARTY		Hud	P		
23	22	21	20		655	l l	orussia MÂ	Koro	Spa		
FSV Zwickau	SC Paderborn 07	SC PreuÄŸen MÃ	SV Sandhausen	18	16	1	2	Nor			
			Constitution of the	FC IngoIstadt 04	FC Augsbu	19 F	C Bayern				
23	22		20	18	16	1		VVV			

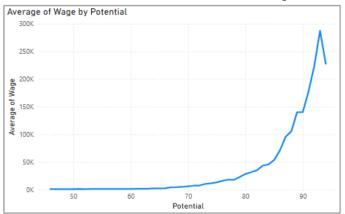
	-	OWER AI
Club	Count of Name	First Nationality
Holstein Kiel	26	Germany
SSV Jahn Regensburg	23	Germany
1. FC Magdeburg	23	Germany
Chemnitzer FC	23	Germany
FC Carl Zeiss Jena	23	Germany
FSV Zwickau	23	Germany
Hallescher FC	23	Germany
Karlsruher SC	23	Germany
SpVgg Unterhaching	23	Germany
SV Meppen	23	Germany
FC Erzgebirge Aue	22	Germany
SC Paderborn 07	22	Germany
Sportfreunde Lotte	22	Germany
VfL Bochum	22	Germany
1. FC Heidenheim	21	Germany
Hansa Rostock	21	Germany
SC Freiburg	21	Germany
SC Preußen MÃ1⁄4nster	21	Germany
SG Dynamo Dresden	21	Germany
VfL Osnabrück	21	Germany
DSC Arminia Bielefeld	20	Germany
Rot-Weiß Erfurt	20	Germany
SC Fortuna KöIn	20	Germany
SV Sandhausen	20	Germany
SV Wehen Wiesbaden	20	Germany
VfR Aalen	20	Germany
Würzburger FV	20	Germany
FC St. Pauli	19	Germany
Werder Bremen II	19	Germany
Eintracht Braunschweig	18	Germany
Total	1140	Germany

☐ Holstein Kiel has 26 players whose first nationality is Germany.

This is the highest count shown in the table for players with German nationality, indicating that Holstein Kiel has the maximum number of players from Germany

Wages vs Potential of Players





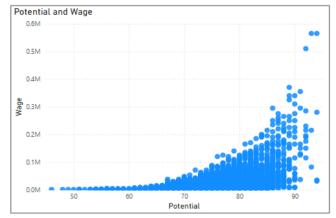


Fig 6: Average wage vs Potential

Fig 7: Wage vs Potential

The visuals strongly suggest that wages are influenced by a player's potential

- ☐ The line chart clearly shows that as the potential rating of players between 16 to 28 years increases, the average wage also increases significantly, particularly for potential ratings above 70.
- The scatter plot also demonstrates this trend, with a higher concentration of players earning higher wages at higher potential ratings. While there's variation, the general trend is upward sloping.

Strikers and Defenders vs Aggression



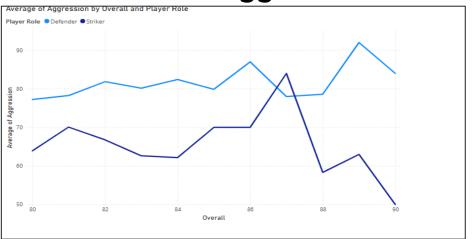


Fig 8: Strikers and Defenders vs Aggression

- ☐ Across almost all Overall ratings (80–90), Defenders have higher average Aggression than Strikers.
- Exception: Around Overall 87, Strikers briefly cross above Defenders, but it's a short-lived spike.

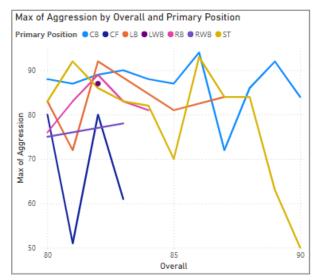
In Conclusion:

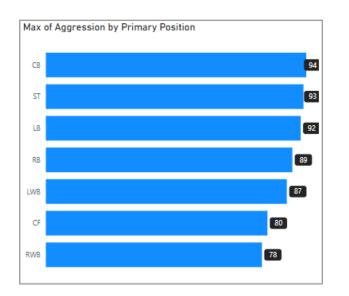
 Strikers do not score higher on Aggression than Defenders. Defenders generally have a higher Aggression score.

19

Maximum Aggression







- □ Defenders have higher average Aggression than Strikers in the 80–85 Overall range.
- \Box The top Aggression scores by position: CB (Center Back) 94, ST (Striker) 93 and LB (Left Back) -92

In conclusion, The position with the highest Aggression among players with Overall 80–90 is Center Back (CB)

Positional Data vs Roles/Classes

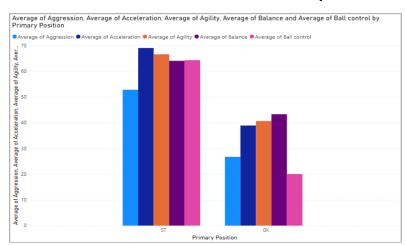


Fig 9: Potential Data vs Roles/Classes

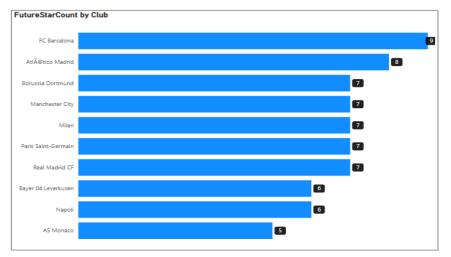
The bar chart compares ST (Striker) and GK (Goalkeeper) on the average values of several physical and technical attributes:

- Aggression
- Acceleration
- Agility
- Balance
- Ball Control

- Physical speed and agility are much more important for ST than GK
- Technical ball control is prioritized for ST but not needed for GK
- GK are built more for reaction and stability rather than explosive movement or skillful ball handling
- Aggression is relatively low for both, but a bit higher in ST, which makes sense since strikers often need to press defenders and show competitiveness.

Top 10 Clubs with Best Future Players





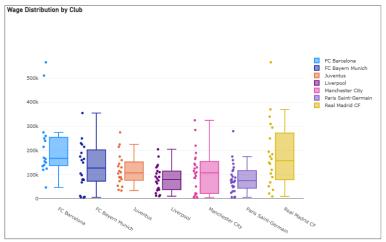
This visual highlights the top 10 football clubs with the highest number of players identified as top future prospects, based on "FutureStarCount."

Fig 10: Top 10 Clubs with Best Future Players

- FC Barcelona leads with 9 future stars, reflecting its continued dominance in youth development
- Atlético Madrid follows closely with 8, reinforcing La Liga's strength in talent cultivation
- Seven clubs share the third spot with 7 future stars each: Borussia Dortmund, Manchester City & PSG,
 Milan & Real Madrid CF, Paris Saint-Germain

Wages of Players vs Best Club





This visualization compares the weekly wage distributions of players across 7 major football clubs using box plots, highlighting medians, ranges, and outliers.

Fig 11: Wages of Players vs Best Club

- High Wage Outliers: FC Barcelona & Real Madrid CF show the highest paid outliers (500k+), reflecting investments in global superstars
- Balanced Wage Structures: Liverpool, Juventus, and Bayern Munich demonstrate tight, controlled wage bands, indicating strong wage discipline
- Star-Focused Strategy: Manchester City & PSG feature significant outliers with relatively moderate medians—balancing elite signings with structured wage control.



Happy Learning!

