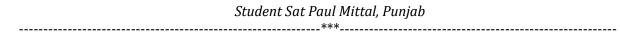
e-ISSN: 2395-0056

p-ISSN: 2395-0072

"Messi vs. Ronaldo: The Saga of Football Greatness" Mathematical and Graphical Analysis on performance and valuation.

- Eklavya Arora



Abstract: This research article explores the eternal debate between Lionel Messi and Cristiano Ronaldo, looking at their careers, playing styles and overall contributions to football. Both players have achieved unprecedented success, becoming global icons and setting numerous records. The aim of this article is to provide a comprehensive comparison by analyzing various aspects such as individual accolades, club achievements, international achievements, physical characteristics and playing styles. This report uses statistics, historical data and expert opinions to assess their impact on club and international football. Messi's achievements for Argentina, including winning the Copa América and FIFA World Cup, have been likened to Ronaldo's triumphs against Portugal, including the UEFA European Championship and Nations League. It also examines the economic and cultural impact of both players, highlighting their role as sports ambassadors. By presenting a balanced, data-driven analysis, this article aims to provide insight into why Messi and Ronaldo are considered the greatest footballers of their generation. The article concludes with a discussion of their legacies and a subjective comparison of the two players who have had a profound impact on the modern game.

KEY WORDS: Football, Messi, Ronaldo, Transfer Market

Why I chose this topic:

I decided to write about this research paper because I have the interest in Football since childhood. The choice of Messi vs Ronaldo: A Story of Football Greatness was motivated by the immense impact the two players have had on the football world and the ongoing debate among fans, analysts and academics. As two of the most iconic footballers of the modern era, Lionel Messi and Cristiano Ronaldo have not only set numerous records and achieved extraordinary success, but have also influenced the evolution of the game. Their rivalry represents a unique intersection of individual excellence and team success, making them a fascinating subject for analysis. By comparing their careers, playing styles and contributions, this study aims to gain a deeper understanding of their achievements and the role they have played in shaping the modern game. Choosing this topic will allow you to explore the many facets of football excellence, from technical ability and physical attributes to the impact on club and international football. The Messi vs Ronaldo debate will include a wider discussion of the subjective nature of comparing greatness, legacy and exceptional talent, making it a rich and relevant topic for academic study.

1. Introduction:

Football, moreover known as soccer in a few parts of the world, a sport that rose in popularity within 21st century. N is frequently alluded to as "the excellent amusement." Its simplicity and all-inclusive request have made it the foremost prevalent wear all inclusive, captivating groups of onlookers with its dramatization, ability, and enthusiasm.

Roots and Advancement:

The roots of football can be followed back to old civilizations. Different shapes of the amusement were played in antiquated Greece, Rome, China, and among inborn people groups within the Americas. In any case, present day football, as we know it nowadays, started to require shape within the 19th century in Britain. It was amid this period that the rules of the diversion were codified, and the wear started to spread rapidly over Europe and past.

The foundation of the Football Affiliation (FA) in Britain in 1863 checked a noteworthy turning point within the history of the amusement. The FA's endeavours to standardize the rules made a difference to bind together distinctive adaptations of the diversion being played at the time. The primary official football coordinate, played beneath these modern rules, took put on 19 December 1863 between two groups in London.



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e-ISSN: 2395-0056

Worldwide Extension:

Football's worldwide extension can be credited to a few components, counting British colonialism, exchange, and the coming of cutting edge transportation. By the late 19th and early 20th centuries, the amusement had come to each corner of the globe. It got to be especially well known in Europe, South America, and Africa, where it rapidly inserted itself into the social texture of society.

The foundation of universal competitions advance fuelled the sport's development. The primary universal coordinate, played between Britain and Scotland in 1872, was a forerunner to the advancement of organized competitions. The creation of the Federation Internationale de Football Affiliation (FIFA) in 1904 provided an overseeing body to supervise the sport's development on a worldwide scale. FIFA's endeavours finished within the inaugural World Container in 1930, held in Uruguay, which brought together national groups from around the world to compete on the greatest organize.

Rules and Structure:

Football is played between two groups of eleven players on a rectangular field with a objective at each conclusion. The objective of the diversion is to score by getting the ball into the contradicting team's objective. The group with the foremost objectives at the conclusion of the coordinate wins. On the off chance that the diversion is tied, it may result in a draw or continue to additional time and a punishment shootout, depending on the competition's rules.

The amusement is represented by a set of laws known as the Laws of the Diversion, kept up by the Worldwide Football Affiliation Board (IFAB). These laws cover all perspectives of the amusement, counting the measure of the field, the gear utilized, the length of the coordinate, and the conduct of players and authorities.

Key Competitions:

The foremost prestigious football competition is the FIFA World Container, held each four a long time. The World Container is the apex of worldwide football, drawing monstrous worldwide consideration. It highlights groups from over the world competing for the title of world champion. The competition has created a few of the foremost vital minutes in sports history and has seen the rise of football legends like Pelé, Diego Maradona, Lionel Messi and Cristiano Ronaldo.

In expansion to the World Glass, there are various other worldwide competitions, such as the UEFA European Championship (Euros), the Copa América, and the African Container of Countries. These competitions grandstand the best talent from each landmass and contribute to the sport's worldwide offer.

At the club level, competitions such as the UEFA Champions Alliance, the English Chief Alliance, La Liga, and Serie A pull in millions of fans. These alliances and competitions highlight the world's best clubs and players, giving a stage for high-quality football and strongly contentions.

2. Craze of Football In Europe:

European football has the potential to be a social miracle with deep roots and far-reaching influence. It is more than just a sport, it is a vital part of the existence of millions of people. The rich history of European football dates back to the late 19th century, when famous clubs such as Manchester Joined Together, FC Barcelona and Juventus were founded. These clubs developed a social learning that symbolized the pride and character of cities and countries. Europe also has prestigious competitions such as the UEFA Champions League, which represents the most prestigious clubs across Europe. Residential associations such as the Premier League, La Liga, Serie A and the Bundesliga also attract millions of viewers each week. Amazing players such as George Best, Johan Cruyff, Cristiano Ronaldo and Lionel Messi have helped to increase the appeal of European football, motivating the times with their skill and charisma. The influence of football extends beyond the stadium and affects the culture, economy and social fabric of European societies. On the day of coordination, people come together for community celebrations, fostering a sense of place and solidarity. The financial impact is remarkable, as football generates billions of dollars in revenue through various channels. European football fans are renowned for their unwavering support, which has created an electrifying atmosphere in the stadiums of the past. Universal competitions such as the FIFA World Cup and the UEFA European Championships reinforce this energy by demonstrating national pride and uniting nations in a common encounter. The development of future stars is supported

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e-ISSN: 2395-0056 p-ISSN: 2395-0072

through grassroots programs and youth organizations, ensuring the growth and support of the sport. Media and innovation play a vital role in attracting fans by providing ample scope and smart platforms to follow their favorite bands and performers. Overall, the European football craze has become a sustainable and remarkable part of European society, spanning history, culture, economy and clean energy.

3. Major Football Leagues in Europe:

There are several major football leagues in Europe, each with its own style, history, and competitive nature. The most famous leagues are:

- 1. English Premier League (EPL):
 - Country: England Founded: 1992 (renamed from Football League First Division)
 - Top Teams: Manchester United, Liverpool, Chelsea, Manchester City, Arsenal, Tottenham Hotspur
 - Overview: The EPL is known for its competitive balance, global fan base, and significant financial soundness. It features some of the world's best players and coaches, making it one of the most popular leagues in the world.
- 2. La Liga:
 - Country: Spain Founded: 1929
 - Top Teams: Barcelona, Real Madrid, Atlético Madrid, Sevilla, Valencia.
 - Overview: La Liga is known for its technical and attacking style of play. Barcelona and Real Madrid are two of the most successful clubs in football history, producing world-class players and teams.

4. Football as a Business in Europe:

In Europe, football is not so much a sport as a thriving business that generates enormous profits. Football has a significant financial impact on stock, tourism, television rights, ticket sales, and sponsorship agreements. Important European teams, such as Real Madrid and Manchester When together, Bayern Munich and its critical commercial standing are global brands. Deals for broadcasting, like the English Chief Alliance's, are valued in the billions, and they significantly influence wages for alliances and clubs. Another significant source of revenue is sponsorship deals, where businesses are eager to invest heavily in football because of the sport's enormous global fan base. The transfer of inventory, which includes shirts, clothes, souvenirs, and advance, supports the biological system of budgeting. Football stadiums also stimulate local economies by bringing in millions of tourists each year.

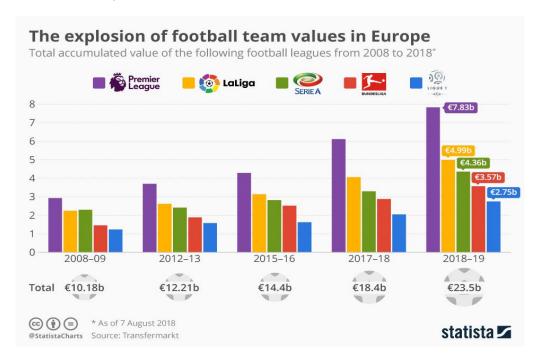


Figure 1: Revenue earned by each big European league

Citation: https://www.statista.com/chart/15013/football-team-values-in-europe/

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e-ISSN: 2395-0056

5. Transfer Value and Salary of Player:

The Transfer market advertise values are calculated taking into consideration different estimating models. A major calculate is the Transfer market community, whose individuals examine and assess player showcase values in detail. In common, the Transfer market showcase values are not to be compared with exchange expenses. The objective isn't to anticipate a cost but an anticipated esteem of a player in a free showcase. Both person exchange modalities and situational conditions are important in deciding advertise values.

Illustrations of this are recorded underneath. Transfer market does not utilize a calculation but instep depends on the intelligence of the community. Various components - the foremost imperative are listed below - calculate showcase request for a player. Request is characterized employing a paid exchange expense and compensation within the setting of the person and situational parameters laid out underneath.

It should be famous that in greater alliances there's a heavier centre on exchange expenses, whereas in littler alliances where there's a more prominent accentuation on free exchanges, the centre is basically on pay rates to decide showcase values. Our objective is to reflect the request for the player and alter for extraordinary factors/framework parameters within the medium term. At the same time, showcase values are seen both separately and in comparison, to other players/clubs/leagues. A player with a lapsing contract encompasses an exchange esteem of zero, the advertise esteem, in any case, is calculated autonomously from his genuine exchange esteem.

In this regard, indeed a brief contract length can as it were be taken under consideration to a constrained degree. The person exchange modalities are moreover important within the case of a conceivable contrast between market values and exchange expenses. In rule, each association within the Transfer market database will experience a market esteem overhaul twice a season. More often than not, after the conclusion of the season, as well as amid a season when sufficient diversions are played to permit for showcase alterations. Further mediator overhauls are conducted in numerous alliances to permit for player alterations all through the season, for example for youthful players with solid exhibitions or for players recently marked to the alliance. Youthful players, in specific, are focused on in middle person overhauls because it permits Transfer market to respond to expanded playing time or players that already did not have a advertise esteem.

Most important factors:

- > Future prospects
- ➤ Age
- Performance at the club and national team
- Level and status of the league, both in sporting and financial terms
- Reputation/prestige
- Development potential
- ➤ League-specific features
- Marketing value
- Number & reputation of interested clubs
- Performance potential experience level
- Injury susceptibility
- > Different financial conditions of clubs and leagues
- General demand and "trends" on the market
- > General development of transfer fees
- External factors such as the coronavirus pandemic and its consequences

Individual transfer modalities:

- Transfers via an option to buy/obligation to buy
- Loan fee
- Only part of transfer rights acquired
- Exit clause
- Buyback option
- Player swap deal
- Contract length
- Resale participation
- Bonus payments
- Improvement of financial balance



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Situational conditions:

- Pressure situations such as competitive, success or financial pressure, etc.
- Will/desire/interests of the player
- Club does not sell to highest bidder
- Player goes on strike or similar
- High salary
- Club wants to sell player
- > Player goes on strike or comparable
- > Tall compensation
- Club needs to offer player

6. Messi vs Ronaldo:

Lionel Messi and Cristiano Ronaldo are two of the greatest footballers of all time, and their rivalry has defined an era in football. Here's a comparison of their careers, styles, and achievements:

Career Achievements

Lionel Messi

- Clubs: FC Barcelona, Paris Saint-Germain (PSG), Inter Miami
- Major Titles:
 - 4 UEFA Champions League titles with Barcelona
 - 10 La Liga titles with Barcelona
 - 7 Ballon d'Or awards
 - Copa America 2021 with Argentina
 - FIFA World Cup 2022 with Argentina

Cristiano Ronaldo

- Clubs: Sporting CP, Manchester United, Real Madrid, Juventus, Al Nassr
- Major Titles:
 - 5 UEFA Champions League titles (1 with Manchester United, 4 with Real Madrid)
 - 3 Premier League titles with Manchester United
 - 2 La Liga titles with Real Madrid
 - 2 Serie A titles with Juventus
 - 5 Ballon d'Or awards
 - UEFA European Championship 2016 with Portugal
 - UEFA Nations League 2019 with Portugal Playing

Style

Lionel Messi

- Skills: Well-known for his playmaking, vision, and dribbling prowess. Messi is a dangerous opponent because of his lightning-fast direction changes and his illustrious left foot.
- Role: Creates opportunities and scores goals by playing as an offensive midfielder or forward most of the time.

Cristiano Ronaldo

- Skills: Known for his finishing, aerial ability, and physicality. Ronaldo is a versatile forward because of his quickness, agility, and heading prowess.
- Role: Mostly a forward, Ronaldo is an excellent goal scorer who frequently plays as a winger or striker.

Influence and Legacy

Lionel Messi:

Messi is often praised for his natural skill and consistent play. He has spent most of his career at Barcelona, where he has become the team's all-time leading scorer and the embodiment of victory. His moves to PSG and Inter Miami have shown his versatility and unwavering talent.

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Cristiano Ronaldo: Ronaldo is praised for his dedication, work ethic and versatility across a range of leagues. His influence and flexibility are evidenced by his successful spells at Juventus, Real Madrid and Manchester United. Ronaldo's move to Al Nassr following his return to Manchester United is a testament to his enduring talent and global appeal.

Career Stats	Messi	Ronaldo
Goals	1212	1147
Hat tricks	57	66
Penalties	109	164
Free Kicks	65	63
Outside the Box Goals	95	68
Key Passes	1387	890
Big Chances Created	408	176
Accurate Through balls	450	81
Successful Dribbles	3131	1683
Shots	2921	3447
Expected Goals(XG)	219.91	229.38
Expected Assists(XA)	129.86	52.08
Aerial Duels	115	737
Average Match Rating	8.54	7.97
Man of the Match	314	168
Goals without Penalties	729	731
El Clasico Goals and Assists	40	19
UCL Knockout Goals and Assists	61	82
Goals and Assists in Final	50	24

MESSIVSRONALDO.APP

CHAMPIONS LEAGUE

Average Match Ratings



Figure 2: Goal comparison b/w Messi and Ronaldo for UEFA Champions league Citation: https://www.messivsronaldo.app/club-stats/champions-league/

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7. New players emerging in Football:

The football world is constantly introducing new talents that are making a big impact. Here are some promising players who are getting the spotlight:

1. Erling Haaland

- Club: Manchester City
- Position: Forward
- Nationality: Norwegian
- Overview: Haaland is known for his incredible goalscoring ability, stamina, and speed. He has broken many records for his age, including scoring a hat-trick on his Champions League debut.

2. Kylian Mbappe

- Club: Real Madrid
- Position: Forward
- Nationality: French
- Review: Mbappe is already a household name, but his reputation continues to grow. Known for his speed, dribbling and scoring ability, he has played a vital role for PSG and the French national team.

3. Pedri

- Club: FC Barcelona
- Position: Midfielder
- Nationality: Spanish
- Review: Pedri has been praised for his vision, passing and intelligence on the pitch. Despite his young age, he has become a key player for Barcelona and Spain.

4. <u>Jude Bellingham</u>

- Club: Real Madrid
- Position: Midfielder
- Nationality: English
- Overview: Bellingham is known for his versatility, composure, and maturity for his age. He impressed both club and country, demonstrating his leadership qualities and technical abilities.

5. Vinicius Junior

- Club: Real Madrid
- Position: Forward
- Nationality: Brazilian
- Overview: Vinicius has made significant progress in his development and is known for his dribbling ability, agility, and ability to create scoring opportunities. He has become a key player for Real Madrid.

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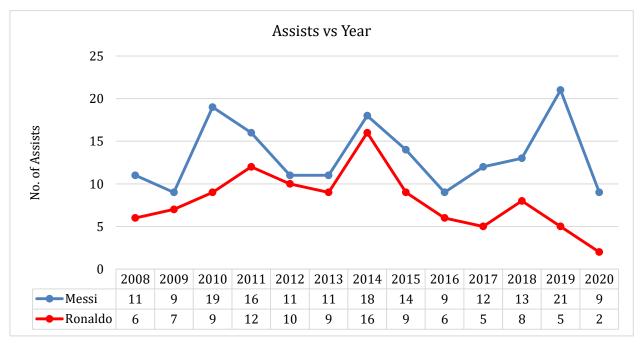
8. Messi Vs Ronaldo: Mathematical Comparison:

1. Goals:



Graph 1: Goal vs Year for Messi and Ronaldo

2. Assists:

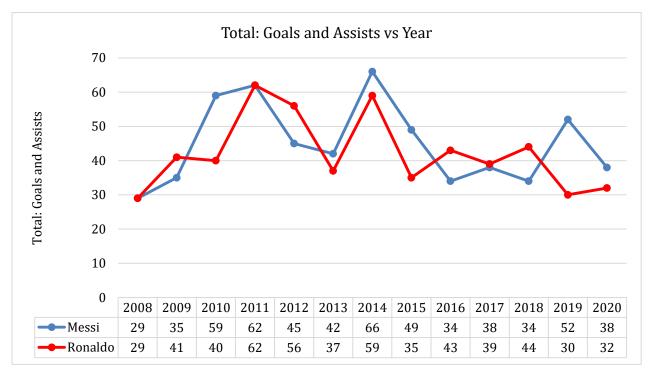


Graph 2: Assists vs Year for Messi and Ronaldo

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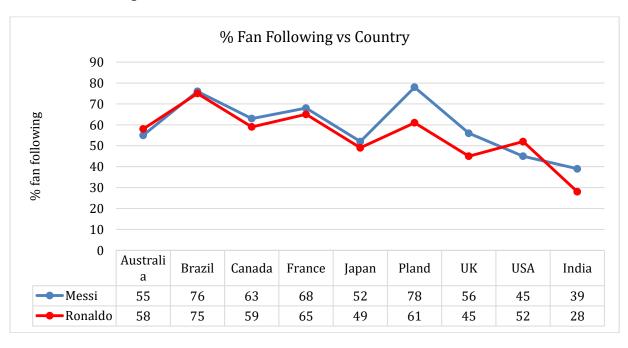
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3. Total: Goals and Assists



Graph 3: Total: Assists and goals vs Year for Messi and Ronaldo

4. Fan Following:

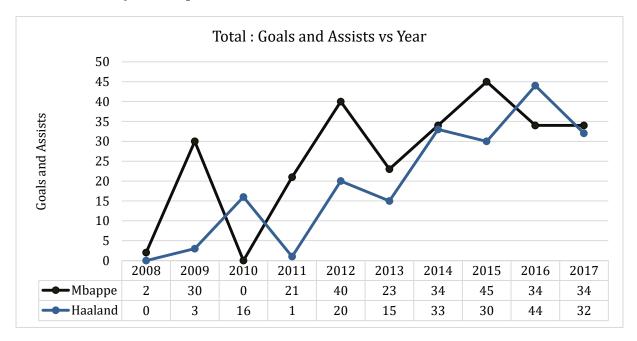


Graph 4: % Fan following vs Country for Messi and Ronaldo

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9. New Star Players Comparison:



Graph 5: Total: Assists and goals vs Year for Mbappe and Haaland

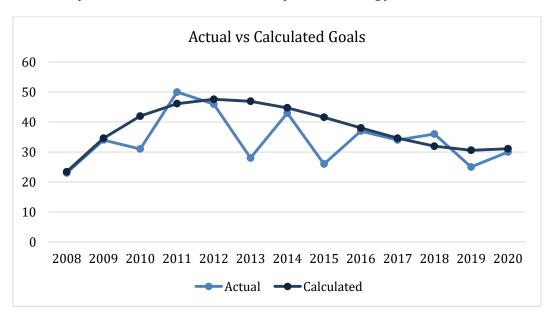
10. Mathematical Equations:

a. Actual vs Calculated Goals of Messi:

In graph, x-axis as years from 2008 to 2020 and Y-axis will show no. of goals scored across all games. Let's consider 2008 as 1, 2009 as 2.......2020 as 13.

After manually drawing graph and on excel.

We concluded cubic equation covers maximum number of plots considering y=ax³+bx²+cx+d.



Graph 6: Actual vs calculated goals for Messi

Formula: y= 0.0947*x³ -2.475*x²+17.96*x+7.82

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Calculated point are round off to nearest integer as goals can't be in fractions.

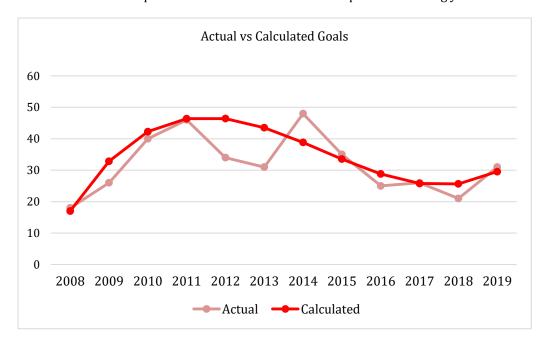
Where "y" represents no. of goals and "x" represents 1, 2,3.....(1 represents 2008, 2 represents 2009 and so on).

b. Actual vs Calculated Goals of Ronaldo:

In graph, x-axis as years from 2008 to 2020 and Y-axis will show no. of goals scored across all games. Let's consider 2008 as 1, 2009 as 2.......2020 as 13.

After manually drawing graph and on excel.

We concluded cubic equation covers maximum number of plots considering y=ax³+bx²+cx+d.



Graph 7: Actual vs calculated goals for Ronaldo

Formula: y= 0.194*x³-4.38*x²+27.62*x-6.42

Calculated point are round off to nearest integer as goals can't be in fractions.

Calculated point are round off to nearest integer as goals can't be in fractions.

Where "y" represents no. of goals and "x" represents 1, 2,3.....(1 represents 2008, 2 represents 2009 and so on).

c. <u>Actual vs Calculated Income of Messi:</u>

In graph, x-axis as years from 2012 to 2024 and Y-axis will show yearly income of Messi from football as well as sponsorship and branding.

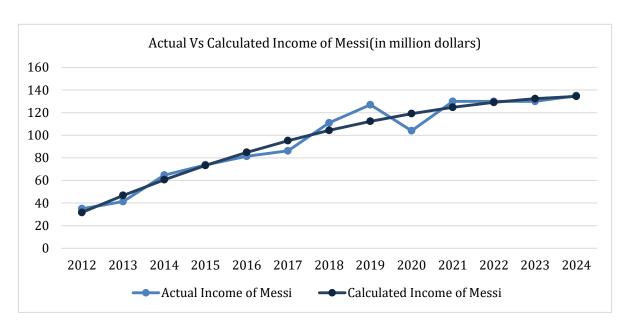
Let's consider 2012 as 1, 2009 as 2......2024 as 13.

After manually drawing graph and on excel.

We concluded quadratic equation covers maximum number of plots considering y=ax²+bx+c.

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Graph 8: Actual vs calculated Income of Messi

Formula: y= 0.591*x² +16.84*x+15.42

Calculated point are round off to nearest integer as goals can't be in fractions.

Calculated point are round off to nearest integer as goals can't be in fractions.

Where "y" represents no. of goals and "x" represents 1, 2,3.....(1 represents 2008, 2 represents 2009 and so on).

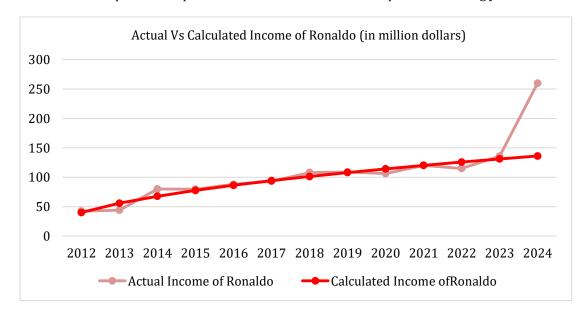
d. Actual vs Calculated Income of Messi:

In graph, x-axis as years from 2012 to 2024 and Y-axis will show yearly income of Ronaldo from football as well as sponsorship and branding.

Let's consider 2012 as 1, 2009 as 2......2024 as 13.

After manually drawing graph and on excel.

We concluded exponential equation covers maximum number of plots considering y=ax^b



Formula: $y = 40.06 \times 0.477$



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Calculated point are round off to nearest integer as goals can't be in fractions.

Calculated point are round off to nearest integer as goals can't be in fractions.

Where "y" represents no. of goals and "x" represents 1, 2,3.....(1 represents 2008, 2 represents 2009 and so on).

Note: The sudden increase in last year is due to transfer to Saudi League where he was given record breaking deal.

11. Conclusion:

The debate between Cristiano Ronaldo and Lionel Messi is one of the most passionate in football history, with each player having their own unique strengths and a large and loyal fan base. While both have achieved great success, there are several reasons to conclude that Ronaldo is the better player.

Firstly, Ronaldo's versatility is unparalleled. He has proven his skills in several top leagues, including the Premier League, La Liga, Serie A and currently Saudi Arabia, and excels in a variety of football cultures and tactical systems. This adaptability highlights his ability to perform at a high level in a variety of environments, demonstrating his versatility and resilience.

Second, Ronaldo's physique and athleticism make him stand out. His combination of speed, strength, and aerial prowess make him a more versatile athlete. These physical advantages have allowed him to remain dominant well into his 30s, continuing to break records and perform at the highest level.

Third, Ronaldo's goal scoring record is unparalleled. He has consistently been the top scorer in every league he has played in, and his goals in the pinnacle of club football, the UEFA Champions League, are a testament to his relentless drive and efficiency in front of goal. His ability to score at crucial moments, often under tremendous pressure, highlights his mental toughness and tenacity.

Lastly, Ronaldo's influence on the international stage with Portugal is significant. After winning the UEFA European Championship in 2016 and the Nations League in 2019, Ronaldo led the national team to unprecedented success, demonstrating his leadership and ability to inspire his teammates. Messi's playing ability and vision are outstanding, but the argument that Ronaldo is better is supported by his versatility, physical attributes, goal scoring statistics and international achievements. These factors combine to show Ronaldo's dominance in the debate about the greatest footballer of this era.

In the end, we can conclude the due to presence of these two GOATs (Greatest of All time) viewership and popularity of the sport increased exponentially.

Quote by the Brazilian football legend Ronaldinho "I learnt all about life with a ball at my feet"

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13. Biographies:

Eklavya Arora

- Received a certificate for achieving an overall aggregate of 95.4% in Grade 10 at Sat Paul Mittal School, Ludhiana.
- Received certificate for securing the highest marks (100) in Commercial Studies in Grade 10.

- Vice President, Investment Club, Sat Paul Mittal School, Ludhiana. Teaching students how to do extensive research on equity shares.
- Co-Founder and COO of Advance As One, a non-governmental organization. Organized food drives that have provided nutritious meals to over 500 individuals. The organization's mission is to ensure access to healthy food for those in need.
- Participation in Harvard Youth Leadership Conference, The Shri Ram School, Gurgaon. Innovate Now, Heritage Experiential School. Young Founder Summit, Chandigarh. Junior MBA Course.
- Compering in Satyan Innovation Fest
- Football (Striker Captain). Brought laurels to the school in various football as well as swimming competitions.
- Writer for Globalscope (Sports).
- Participation in -
 - International Finance Olympiad (Regional Level)
 - International Economics Olympiad (District Level)
 - International Finance Olympiad (District Level)

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- > M.Sc (Mathematics) (Double gold medalist)
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- PhD (Mathematics) -Various papers published in international journals
- ➤ Former Lead Auditor ISO 9001,ISO -22000 School Accreditation Examiner by QCI
- ➤ 26 years of teaching experience
- Various Research Paper Published

Er. Raunag Jain

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