Data Visualisation Project

Theme - Football Club & Player Analysis

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Team - Vision

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INTRODUCTION

What we aim to do is make simple, eye-catching and informative Data Visualisations on football clubs of the top 5 Leagues in the world (Premier League, LaLiga, Bundesliga, Ligue1, SerieA) using datasets through which we can easily infer our own outcomes and make sense out of them.

DataSets Being Uses

We have 10 Datasets being used (CSV format):-

- Premier League Club Player Data (PremierLeagueClubData.csv)
- Premier League Club Market Value Data (PremierLeagueClubs_Value.csv)
- LaLiga Club Player Data (LaLigaClubData.csv)
- LaLiga Club Market Value Data (LaLigaClubs_Value.csv)
- Bundesliga Club Player Data (BundesligaClubData.csv)
- Bundesliga Club Market Value Data (BundesligaClubs_Value.csv)
- SerieA Club Player Data (SerieAClubData.csv)
- SerieA Club Market Value Data (SerieAClubs_Value.csv)
- Ligue1 Club Player Data (Ligue1ClubData.csv)
- Ligue1 Club Market Value Data (Ligue1Clubs_Value.csv)

Source Material For DataSets

1. FIFA Ratings And Statistics
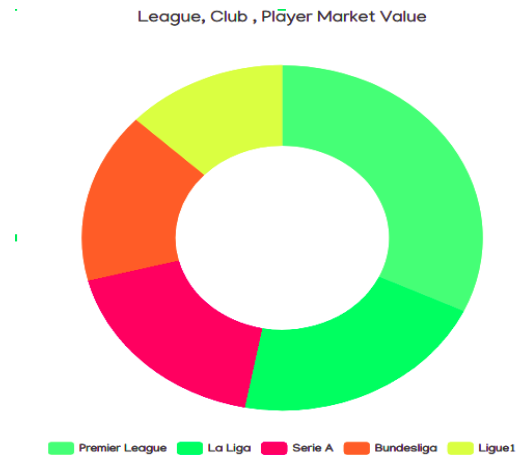2. Kaggle
3. transfermarkt.co.in

Steps To Complete Project

1. Collect Data   **DONE**
2. Clean Data   **DONE**
3. Convert Data To Usable Format (CSV in this case)   **DONE**
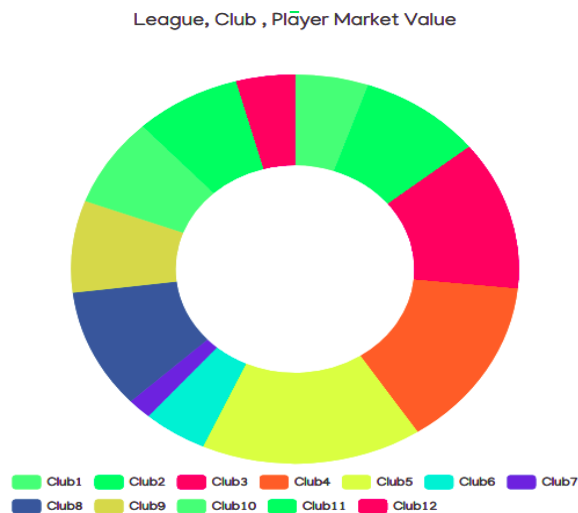4. Create Visualisations   **PENDING**

1

Proposed Visualisations

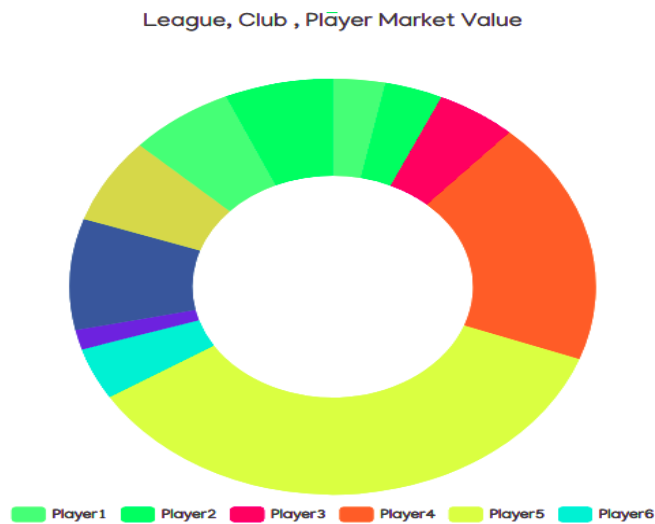## 1) A Single Level Sunburst Diagram On League, Club And Player Values

Here we will have an initial Donut Chart that will include all clubs and Based on the value of each they will be given a certain percentage of the donut. For example as Premier League has highest will cover the most area of the chart.

League, Club , Player Market Value

Premier League | La Liga | Serie A | Bundesliga | Ligue1

Now Clicking on any one of the leagues you go into another donut chart that shows all the clubs in that specific and they are divided on the basis of their clubs market value.

League, Club , Player Market Value

Club1 | Club2 | Club3 | Club4 | Club5 | Club6 | Club7
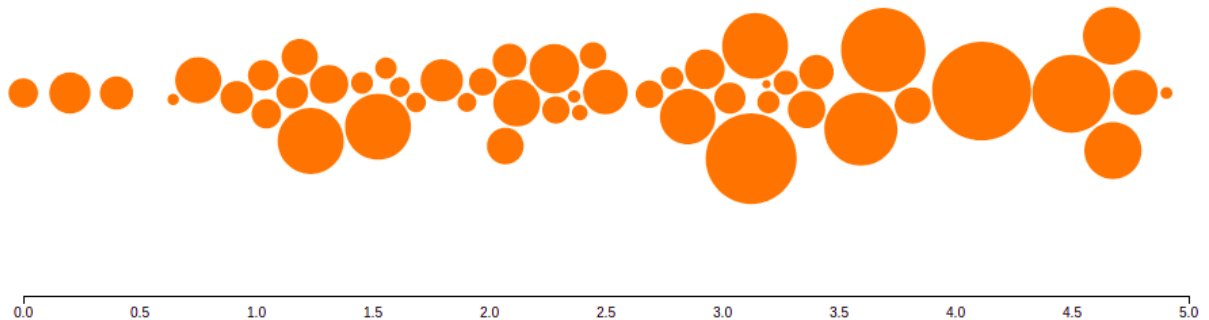Club8 | Club9 | Club10 | Club11 | Club12

Now Clicking any club gives another donut chart that shows all players with FIFA Rating above 70 present in the club divided in area by the players individual market value. On hovering you can see the player statistics and market value.

League, Club , Player Market Value

Player1 | Player2 | Player3 | Player4 | Player5 | Player6

2) Bubble Chart Based On Age And Fifa Rating

We will create a single axis bubble chart where this axis will represent age and bubbles will be sorted in this and size of bubble will be the equivalent of his FIFA Player Rating. There will be a variety of colours where each colour will show the position the player plays in (Eg. CF, LW, CB, etc)
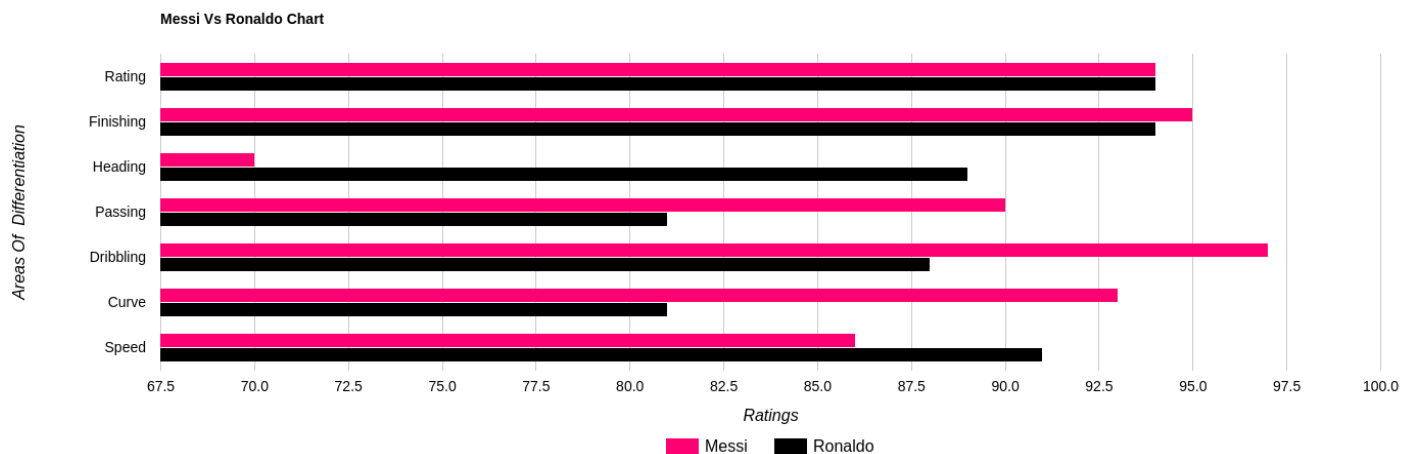
We will create something like this (Values On Axis will change And There Will Be Difference in Colour) →

Location on Axis ->Age, Colour ->Position, Size Of Bubble -> Fifa Rating

3) Messi VS Ronaldo Debate Bar Chart

Here We Will Create A Double Bar Graph one bar depicting Messi and the Other depicting Ronaldo. We will show a comparison between them in several categories.
So a person can easily decide which Player they prefer according to them.
An Example Graph is ->

Other Visualisations Can also be made !!!!!!!!!!!!!!!!!!!!!!!

1. Market Value Sunburst Visualisation

Through this we wish to easily view which leagues, clubs and players are more valuable by easy percentage differentiation. We can also view statistics of player by hovering over the player Area Region and view statistics. We can deduce why this player is so valuable by looking at their statistics.

2. Fifa Rating And Aged Based Bubblet Chart

Through this we can see the best player of each age group and also the best player overall viewing each statistic of the player contributing to that high rating.

3. Messi VS Ronaldo Debate Double Bar Chart

This graph was just for fun. Both players are outstanding but not all features are wanted by a particular person. One may favour speed over physicality, etc. So this graph was so one may view which player better suits there liking and can decide who is better player according to them by viewing a clear difference in statistics.

REFERENCES

1. FIFA Ratings
2. Kaggle
3. transfermarkt.co.in