FIFA 2018 Data Analysis - Project Description

Overview:

In this project, we will be looking at the player data provided by FIFA which contains information such as personal details, wages, physical attributes, technical skills, potential and their positional strengths. This is primarily data of FIFA 2018.Through this project, you will get a glimpse of insights behind the beautiful game and the kind of information and decisions a football manager goes through.

Questions:

Explore the data and attempt all the below asked questions in a step by step manner:

- Prepare a rank ordered list of top 10 countries with most players. List 5 countries that are producing the most numbers of footballers that play at this level? - 5
- Interpret the age after which a player stops improving. - 5
- Which type of offensive players tends to get paid the most: the striker, the right-winger, or the left-winger? Visualize through a scatter plot for all the three - 10
- Top 5 players for every preferred position in terms of overall as well as potential points. Who were the best in 2018? – 10

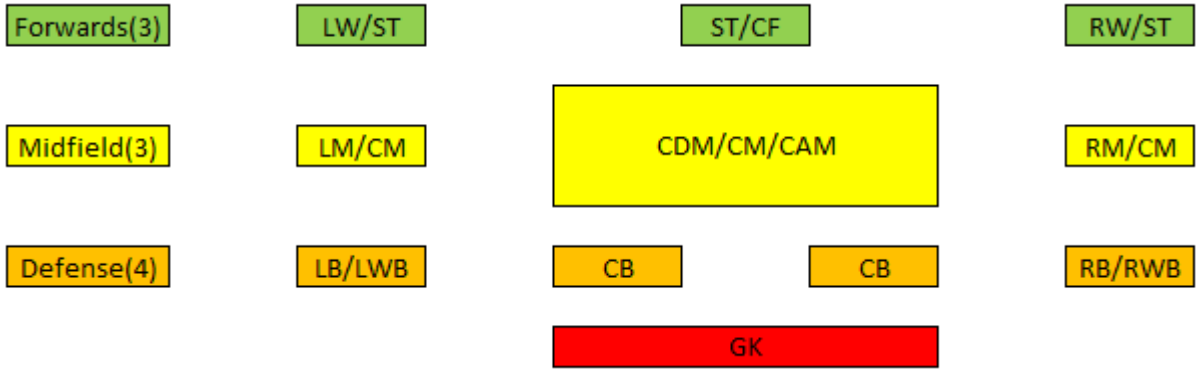
  ***Note**: There are different preferred positions for a player and you are required to consider the first preference as the player's preferred position. For example, if a player's preferred positions are 'LW RW ST' consider his position to be LW and create a new column to store these positions. Consider this new column for position related questions. Once this new column is created, you will find around 15 unique positions.*
  You can refer to this code to create the column –
  fifa_df['Position'] = fifa_df['Preferred Positions'].apply(lambda x: x[:3])

- Which club(s) have the maximum share of players from England? Which club(s) have the maximum share of players from Spain? Which club(s) have the maximum share of players from Germany? - 10
- As a National coach of France team you want to compare the national team of England, Spain, Italy and Germany to understand the competition. The formation of the teams is restricted to 4-3-3 (4 defenders, 3 midfielders, 3 forwards, 1 Goal Keeper) and players with overall value of more than 75 are preferred, now form the best team for each of the mentioned countries and compare them. Note down all the insights that you as a business analyst should share with the coach. - 20

  Note:
  - Pick out the best players based on the overall rating while selecting the players. In case of a tie, select the most important tiebreaker attribute.

- When we talk about formation, the nomenclature is as follows (Number of defenders- Number of midfielders- number of forwards), goalkeeper will always be there in the team hence we don't represent it in the formation.

4-3-3 formation:



- Based on the positional requirement the above mentioned positions can be treated equally while shortlisting the squad. E.g. LW / ST – LW can be treated equally as striker

Data and Data Dictionary:

The Data and the relevant Data dictionary is attached with the project.