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Analyzing FIFA19 Player Dataset

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Data Visualization – CSIS 3860

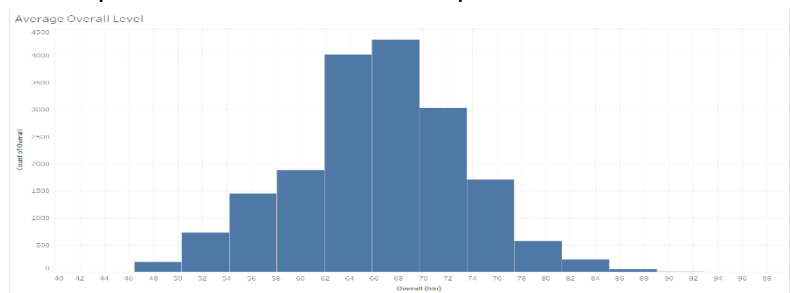Instructors – William Tan, Bambang Sarif

[src: https://media.contentapi.ea.com/content/www-easports/en_US/fifa/news/2018/fifa-19-ultimate-team-pitch-notes-traits-specialties-save-styles/_jcr_content/headerImages/image.img.jpg]
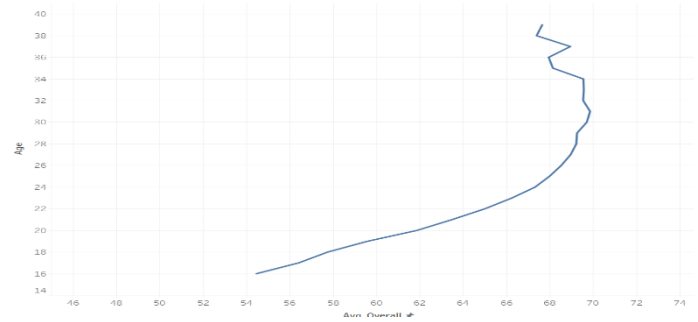
- Visualization Tool : From this course CSIS3860 I got profound knowledge of using both Tableau and PowerBI, but I used Tableau software to complete this project because I started learning with Tableau from the beginning of the course and I thought the requirements needed to do this project goes well with Tableau.
- Data Source: Data has been collected from https://www.kaggle.com/karangadiya/fifa19
- Reason to choose this project: I played football my whole life and after coming to Canada to pursue my higher studies I have been playing FIFA games. So, I decided to dig deep into how a players profile and potential depend on individual skills and increase their value and which factors contribute to drop their valuations.

Below are some data analyses that could answer the queries needed to solve the problem.

1. Firstly, I analyze the overall average level, so by seeing a player profile it will be easy to understand if the player standout above average.
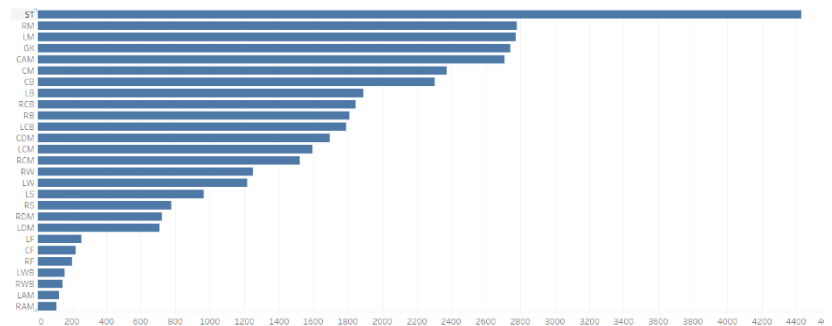
2. Overall depends on the age. Players potential overall decreases after the age of 30. To make this graph I have limited the count to 20 because after age 40 there are some outliers which is deviating the actual assumptions.
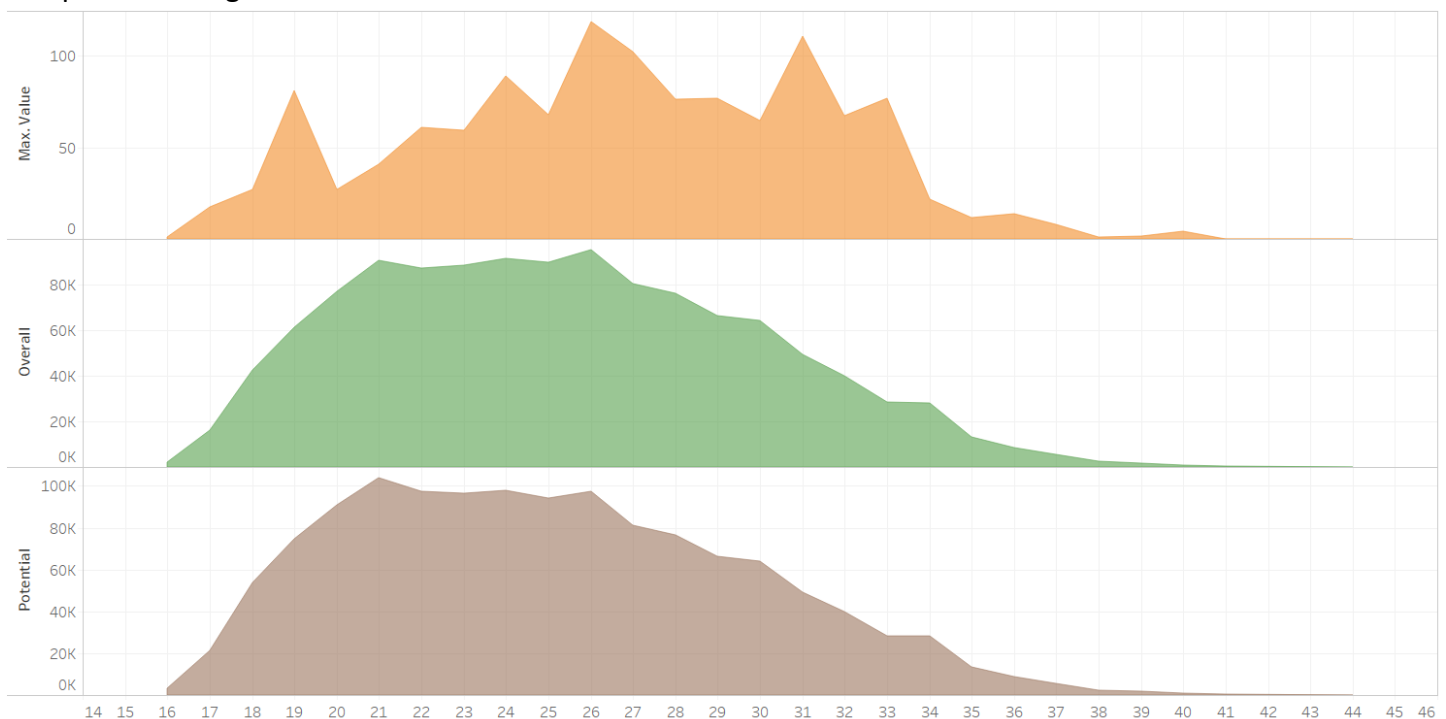

3. Most players are playing in the position in ST,GK,CB,CM,LB,RB. To get this chart I have used a box plot and grouped the data by positions.

4. Most players are from Spain, Italy, Brazil, Argentina, England, France, Germany. To get this chart I have used pie chart and filtered the values based on players value and minimum of 300 count required to filter out the least countries.

5. To predict which position players are most expensive we can see this chart. Strikers, midfielders, and Goal keepers are the most expensive ones. Then comes special position players which depending on the strategic decision of the team.
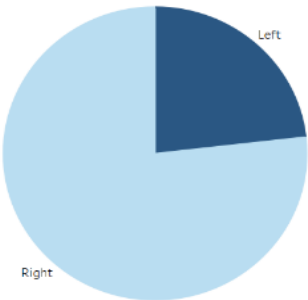

6. Age is a very important number in any sports field. There is a certain threshold age after which it slows down the potential. For this chart I have grouped together value, overall and potential separately and compared with age.

7. Analyzing top 10 players can help deciding which factors help to become a top player. For this, we can see the worksheet "top_10_valued_players" and "single_player_attribute". First sheet shows the most valued
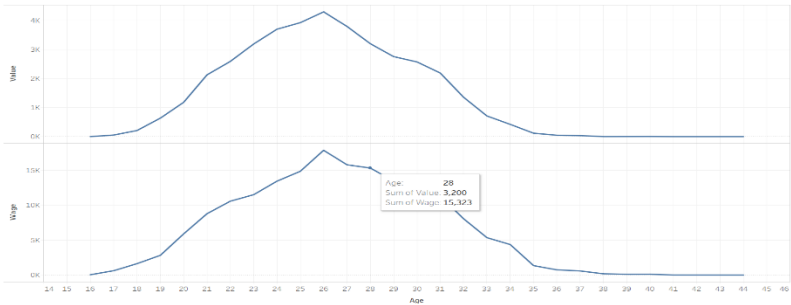
players and if I click on a particular player it will take to the next worksheet which indicate a single players

profile.

8. Most preferred foot for the players. We can see that almost 75% players are right footed but left footed players are most expensive.

9. Comparing wage and value by age. Player's wage and values depend heavily on age. We can see clearly from this analysis that after the of 28 players overall start declining.

10. Clubs having most valuable players. In this chart I have analyzed which clubs have the highest valued players.
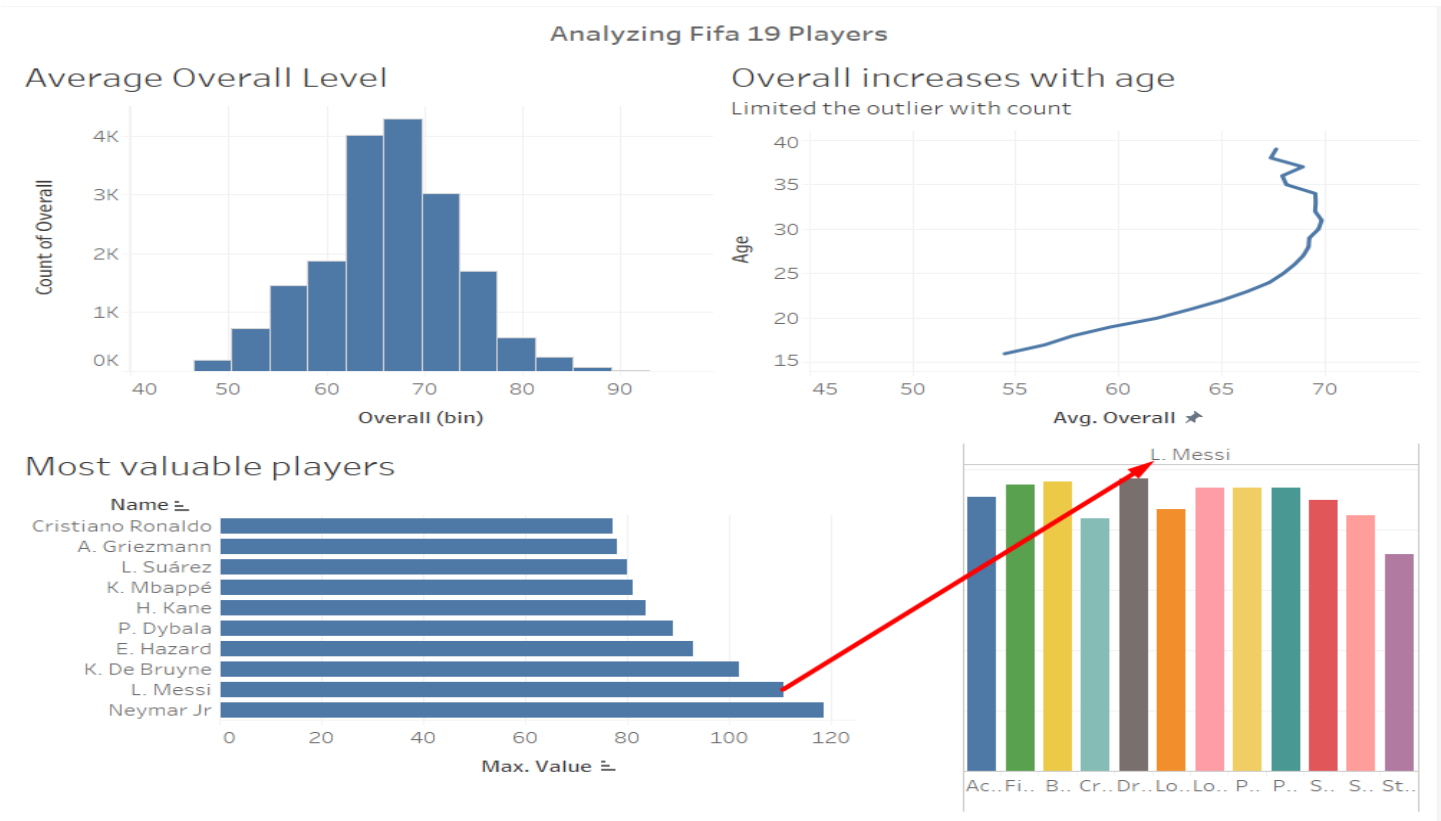
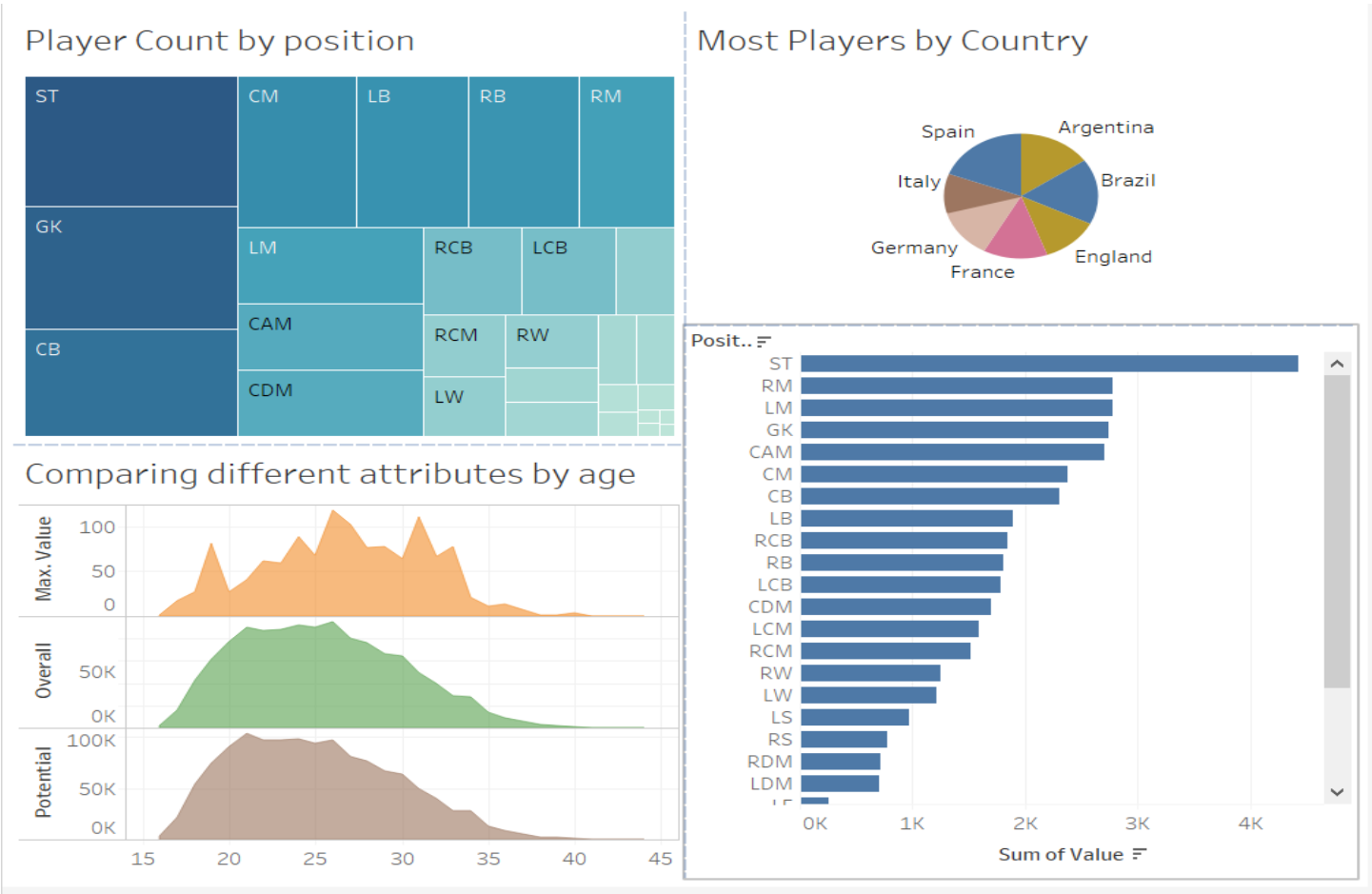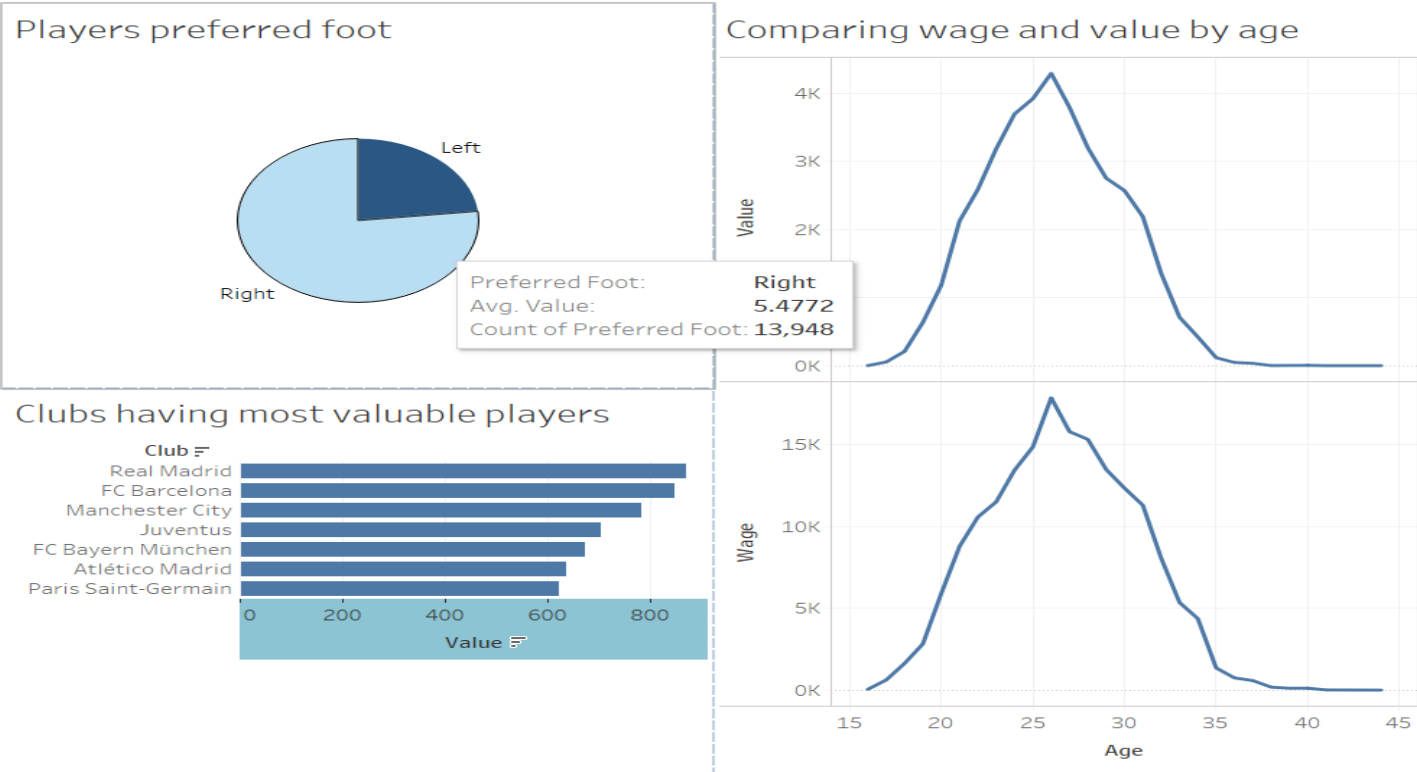Below are the dashboard images:

Fig. Dashboard 1

Fig. Dashboard 2

Players preferred foot

Left

Right

Preferred Foot:	**Right**
Avg. Value:	**5.4772**
Count of Preferred Foot:	**13,948**

Comparing wage and value by age

Value

4K

3K

2K

0K

Wage

15K

10K

5K

0K

15   20   25   30   35   40   45

Age

Clubs having most valuable players

Club

Real Madrid
FC Barcelona
Manchester City
Juventus
FC Bayern München
Atlético Madrid
Paris Saint-Germain

0   200   400   600   800

Value

Fig. Dashboard 3