

ASSIGNMENT ON MACHINE LEARNING

I have selected a dataset from kaggle.com which is Fifa 19. The link of the dataset is [Click Here.](#)

The questions which I want to investigate after getting the dataset is.

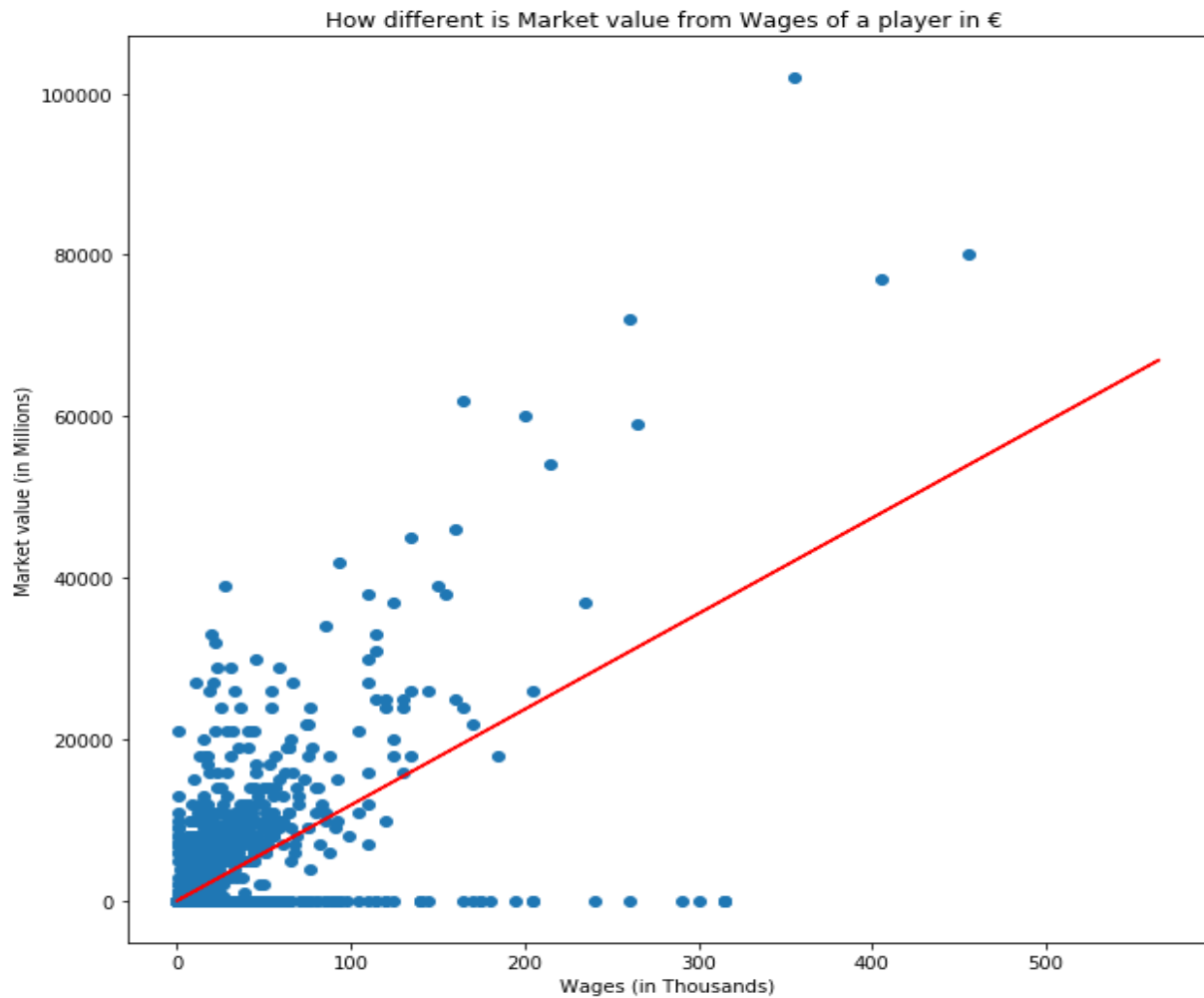
1. How Market value is dependent upon the Wage of a player?
2. Which is the preferred foot for a specific position?
3. Top Three demanding positions in the DataSet?
4. Club with the highest median wages (top 11)?
5. Players with the highest Release Clause (top11)?

Question 1:

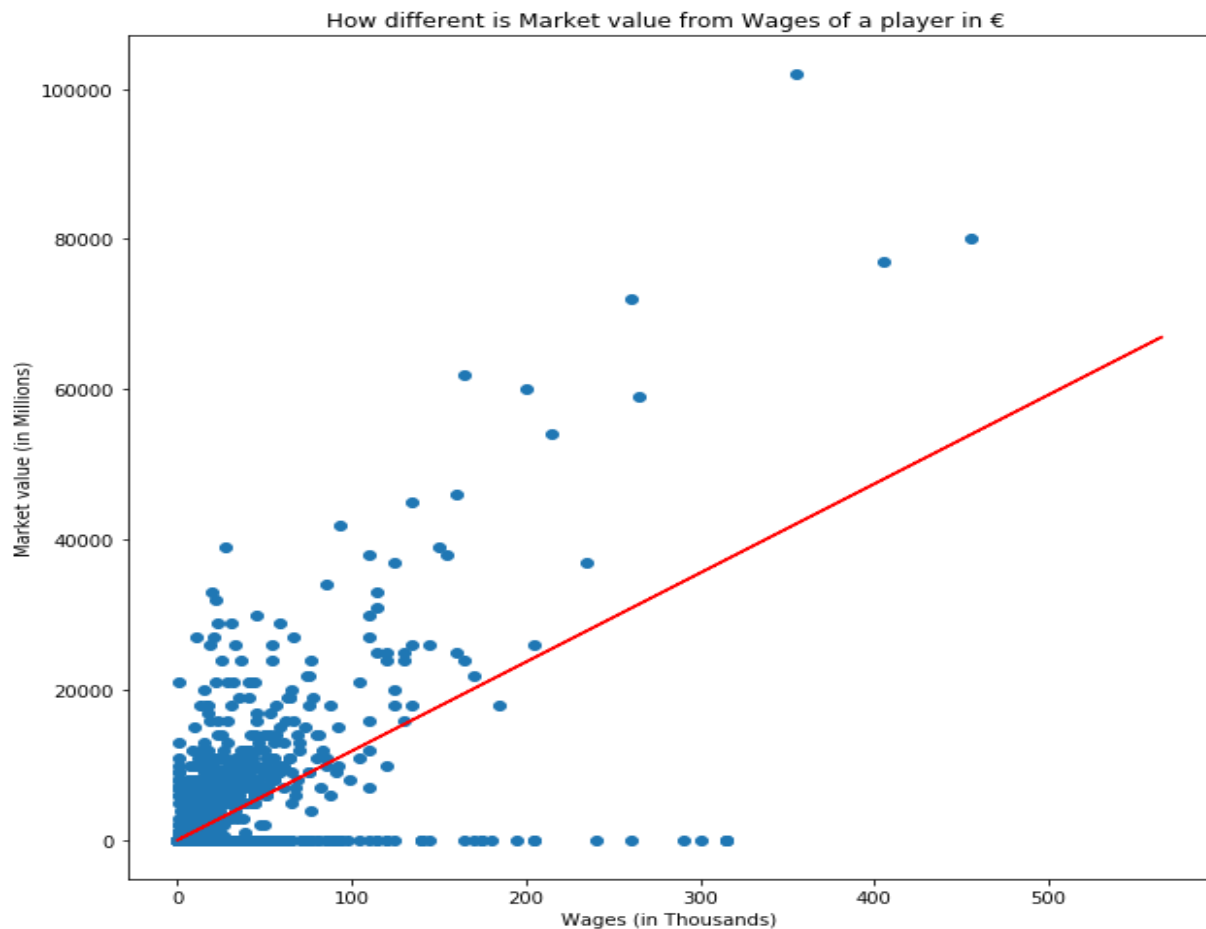
How Market value is dependent upon the Wage of a player?

Answer:

Using the Training Dataset



Using the Test DataSet



After observing the Training and Test DataSet's graph carefully, we can clearly see that the relationship between the Market Value of a Player is directly proportional to the Wages of a Player. We have also got an interesting insight from the graph that even the player who has a **high** Market Value has Wages **close to Zero**.

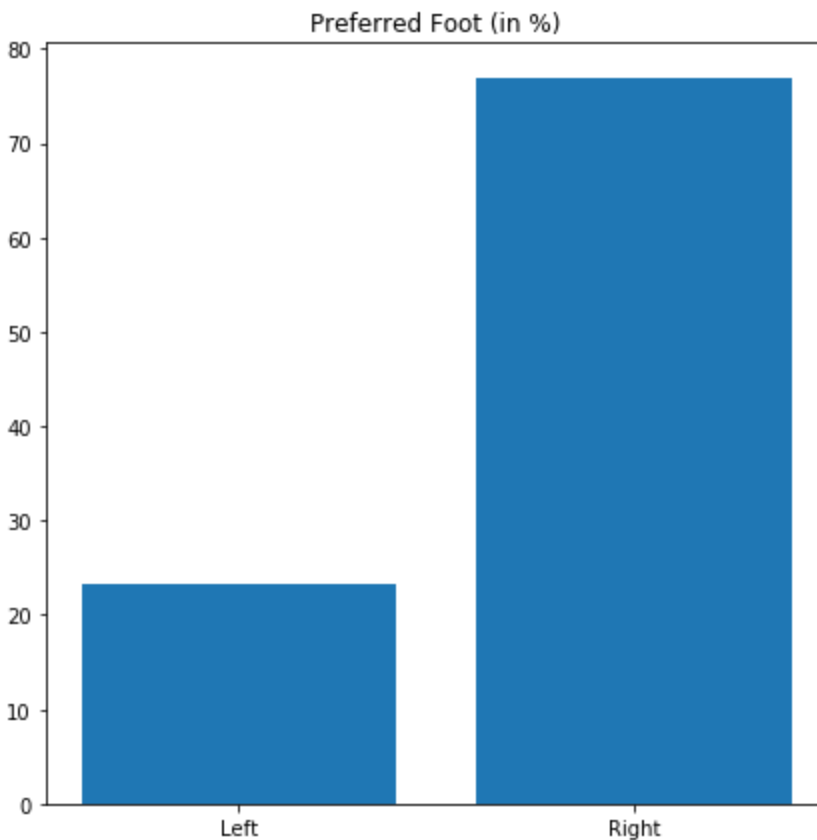
Therefore we can conclude that we Market value does affect the Wages of a player.

Question 2:

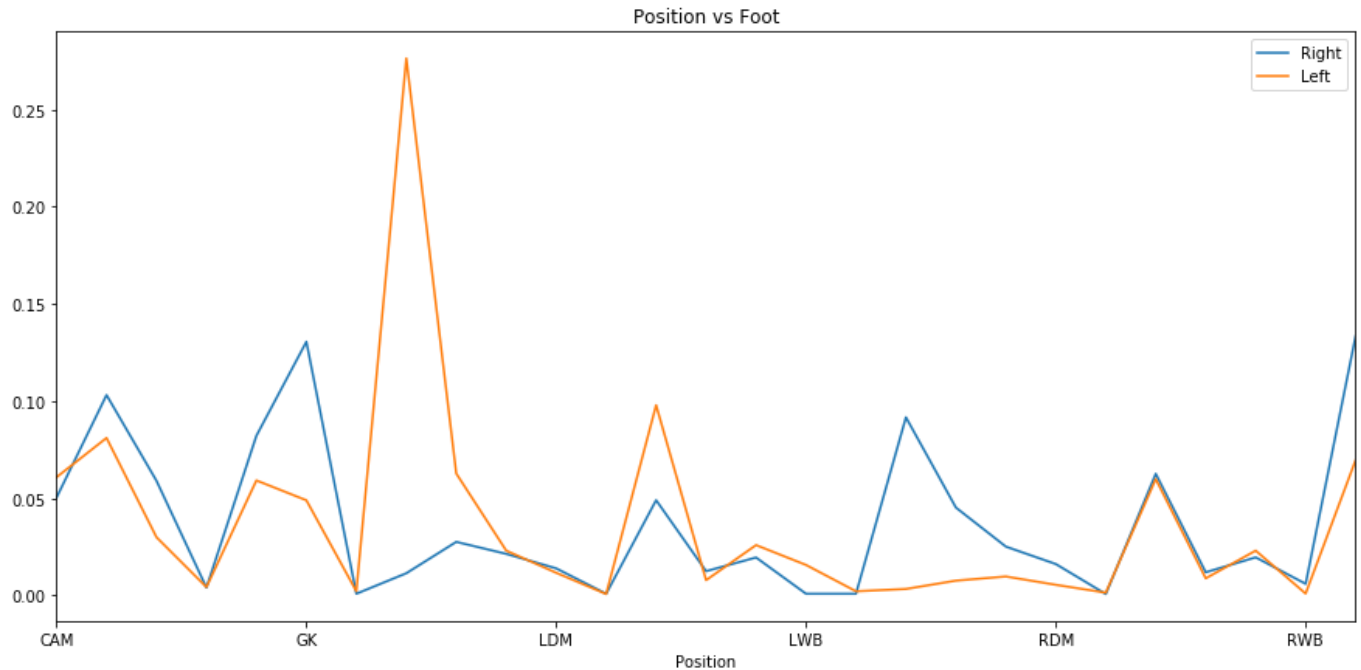
Which is the preferred foot for a specific position?

Answer:

We can clearly see in this graph(below) that according to the dataset the percentage(%) of the Left Footed Player is nearly below 25%.



To check whether the preferred foot of the player has any impact on the position of a player, we took the proportion of the preferred foot grouped by the Position of a player



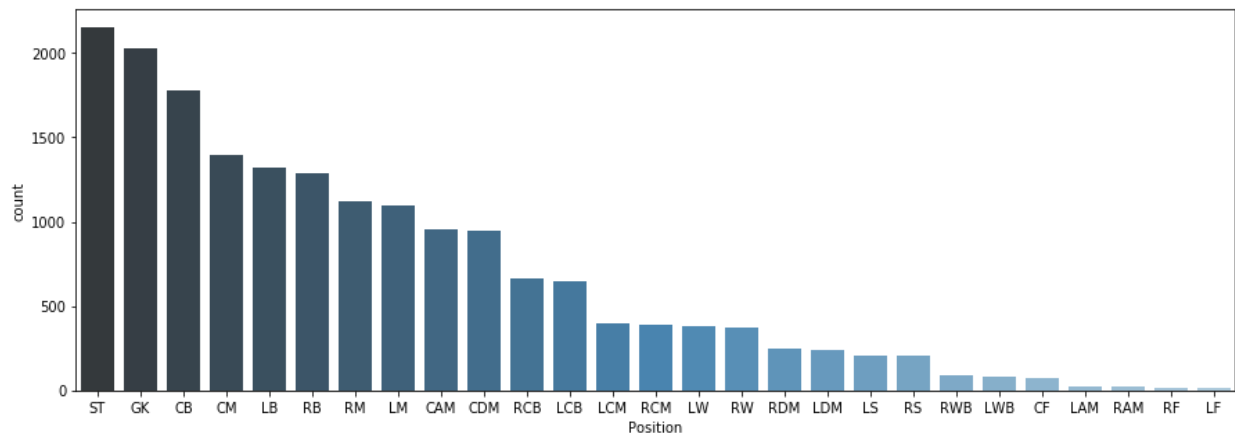
It can be observed from above that the proportion is the same for both left and right foot, with a few exceptions. This means it hardly matters whether you are a lefty or righty the distribution of Positions, the demand for one position over others will be roughly the same.

Question 3:

Top Three demanding positions in the DataSet?

Answer:

Furthermore, Striker, Goalkeeper, and Center-Back are the top three positions in terms of no. of players.



Question 4:

Clubs with the highest median wages (Top 11)?

CLUBS	WAGES (in K)
Juventus	125.0
FC Barcelona	125.0
Manchester City	120.0
Real Madrid	120.0
Manchester United	110.0
Chelsea	98.0
Liverpool	94.0
FC Bayern München	85.0
Arsenal	81.0
Tottenham Hotspur	79.0
Milan	73.0

Question 5:

Players with the highest Release Clause (top11)?

Name of the Players
Luis Suarez
G. Bale
David Silva
E. Cavani
O. Dembélé
Bruno Fernandes
M. Depay
Y. Brahimi
F. Thauvin
M. Reus
Iago Aspas

Conclusion

In the dataSet of FIFA 19 provided by Kaggle is very interesting. Many questions can be asked from this dataSet apart from this Five Questions.