**Scored Goal predication**

Scored Goal predication is application of multiple linear regression model , the main idea behind the project is to predict how many goals each time scored in one season using pervious stats we were able to predict the scored goal for each team with 95% accuracy.

We have applied in our project some of general concepts we have learned before in this course .

Concepts :

1. Reading and manitpluating datasets with pandas
2. Scientific Computation with numpy
3. Data visualization with matplotlib ,seaborn, Autoviz
4. Feature extraction with sklearn
5. Splitting train and test data with sklearn
6. Linear Regression Algorithm with sklearn

**Notes**

* Starting with our dataset original dataset was contain 26 columns before cleaning we deleted unwanted features manually first .
* We we manipulated our data to work with specific part.
* We visualized the data to see the coloration between the selected features and the output .

*Chart, scatter chart

Description automatically generated*Let’s see the plots for the coloration

*(this plot shows the (coloration between our output and one feature)*

* We used sklearn algorithm for feature selection of the most effiecient data.

We noticed that the second feature was not efficient

Chart, scatter chart

Description automatically generated

*(This plots show the second feature to output)*

* We used Multiple Linear Regression model

We fitted our data perfectly and get a 95% accuracy on test data

**Note**

we used another model but it was less efficient

Graphical user interface, text, application, Word

Description automatically generated

Finally

**Important links**

Dataset Link:

<https://www.kaggle.com/slehkyi/extended-football-stats-for-european-leagues-xg>

Code Link:

<https://drive.google.com/drive/folders/1cAr8xJ1AFATsGGuXQqWjfezwjazhzeZH?usp=sharing>

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