Analysis on English Premier

Dataset Description

EPL Dataset

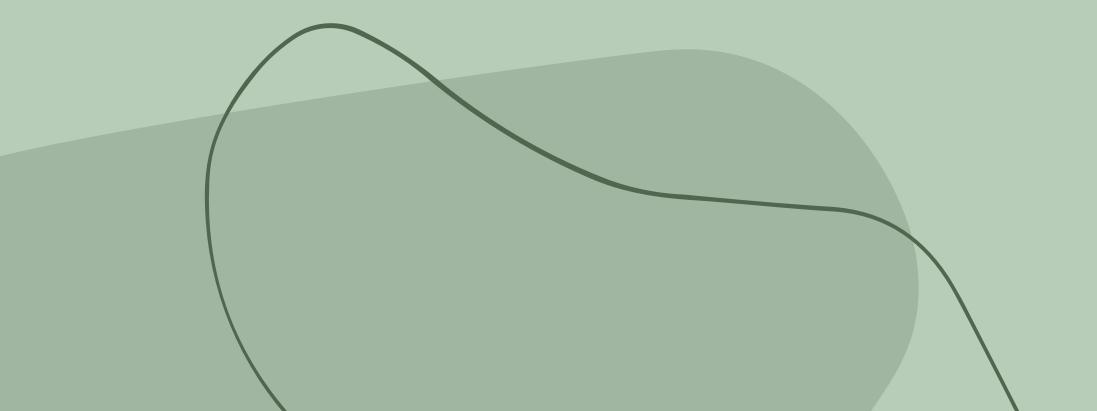
Season 2020-21

Dataframe shape- 532 x 18

Club, Position, Goals, Assists, Age and 13 other attributes

Multiple Libraries used

Pandas, Matplotlib, Scikit Learn



Business Value/ Example



EDA

VVest Brom(19th) used most players(30) throughout the season.

Leeds United(9th) used the least players(23) throughout the season.

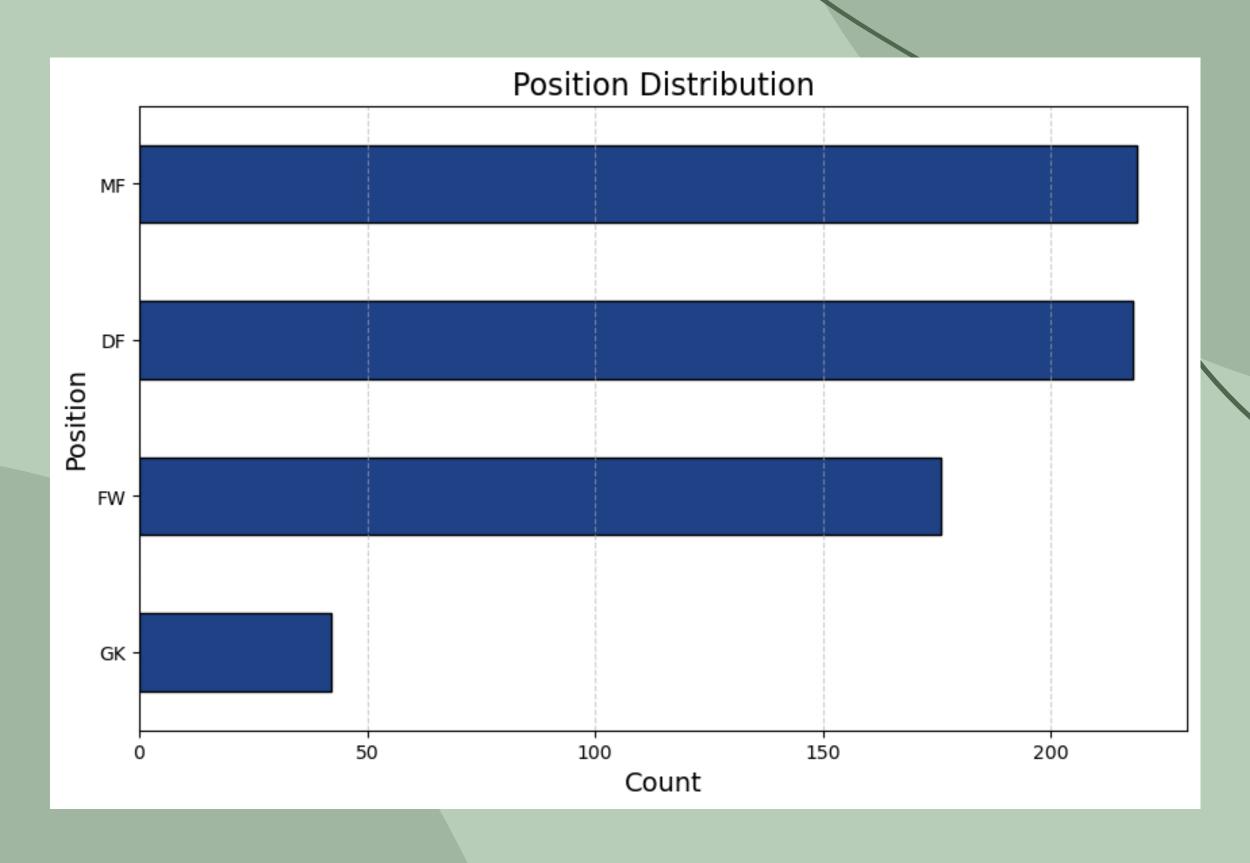
The winner Man City used I more player(24) than Leeds. the trend states that better teams use less players and stick to the same players and maintain consistency.

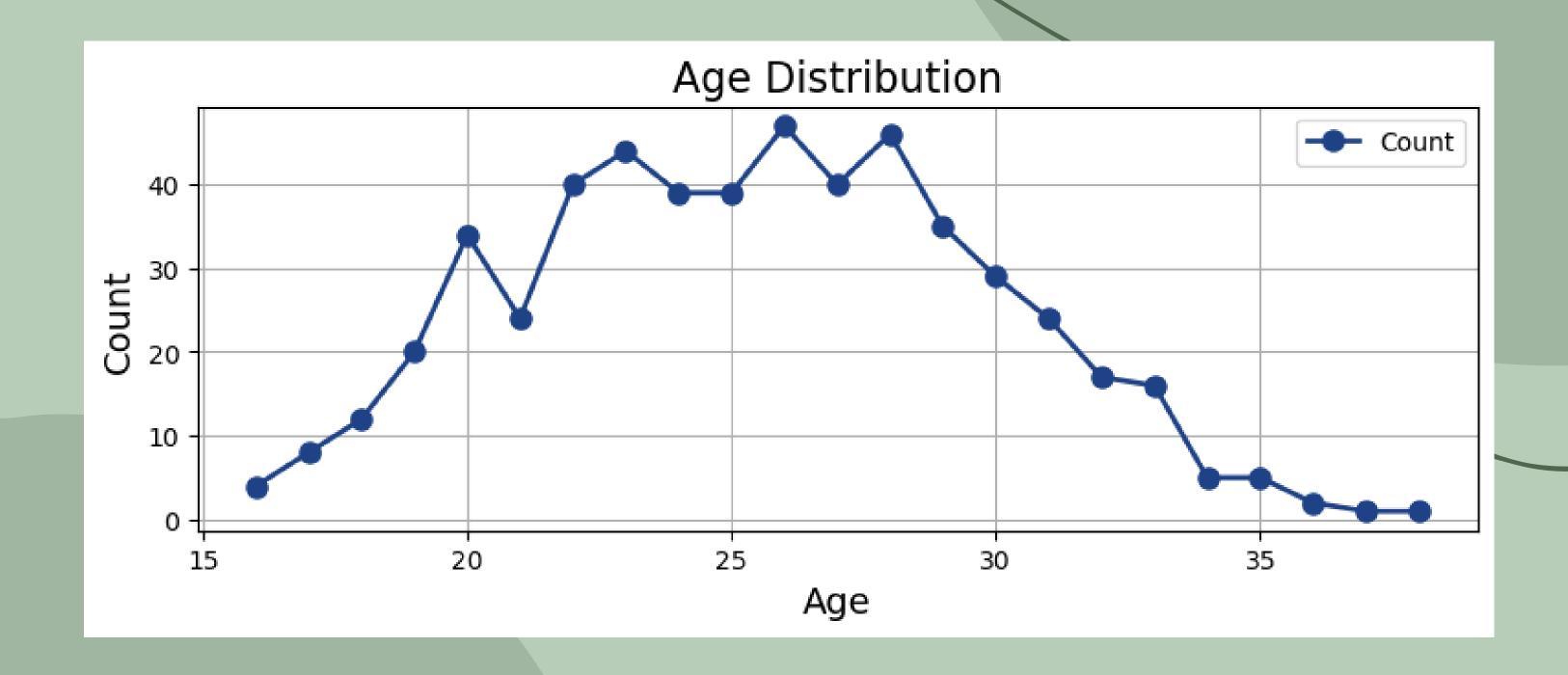
EDA

The trend states that better teams rotate less players and stick to the same players to maintain consistency.

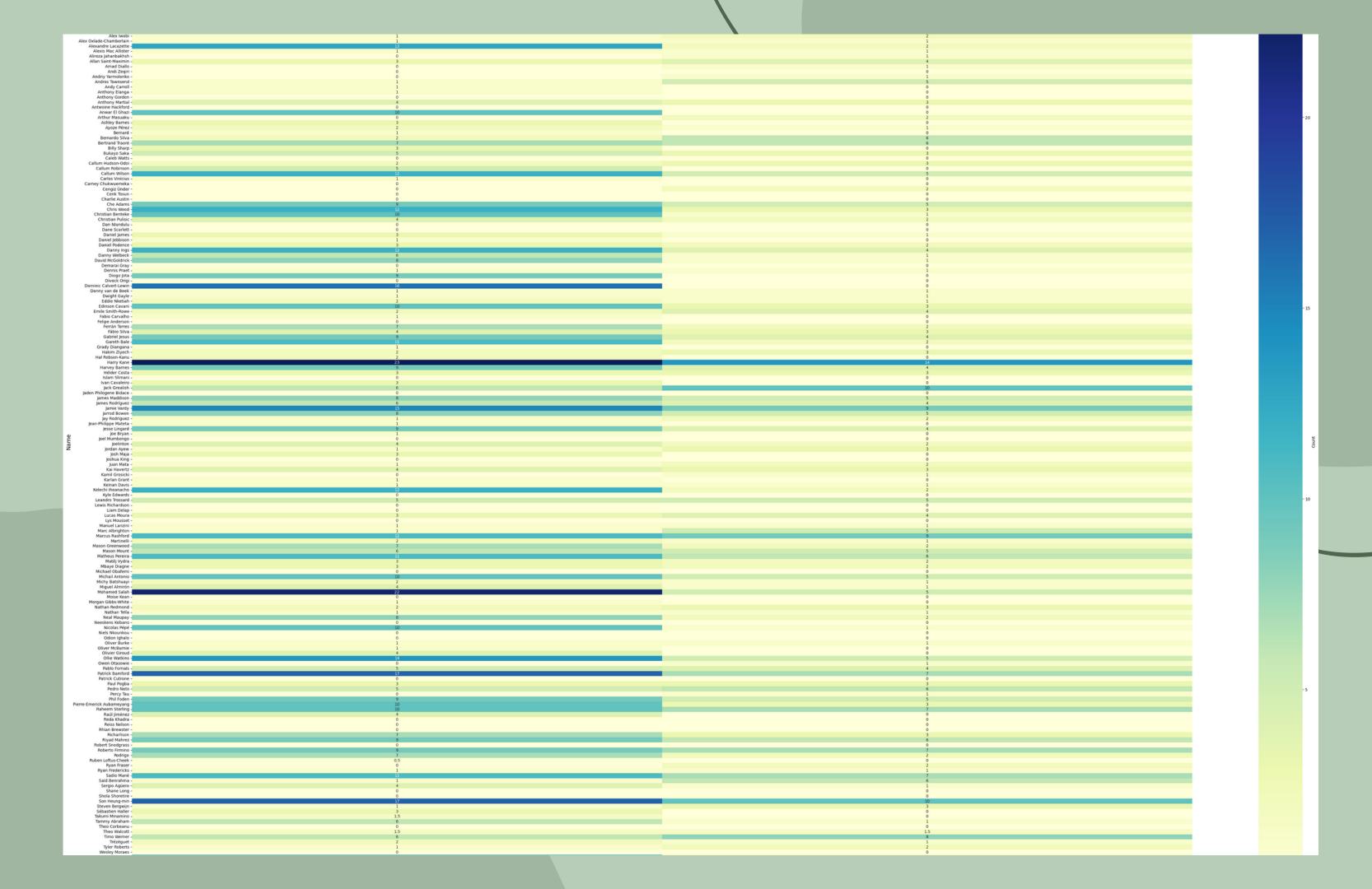
23.1% players in the league can play at more that one position

Visualizations



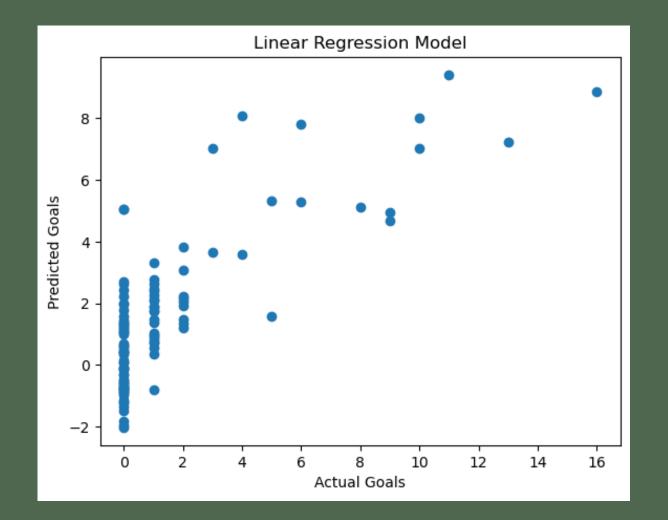


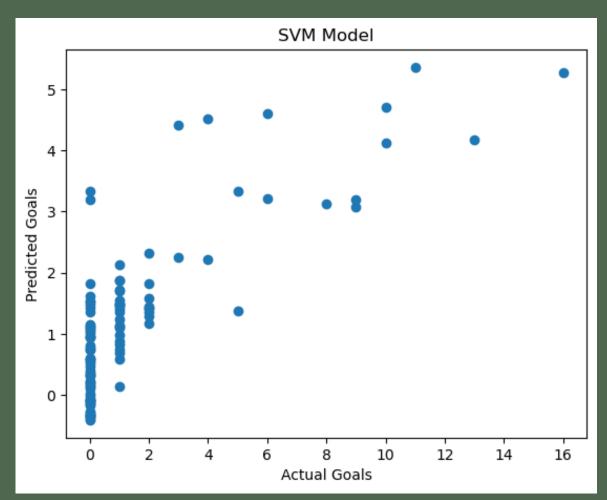


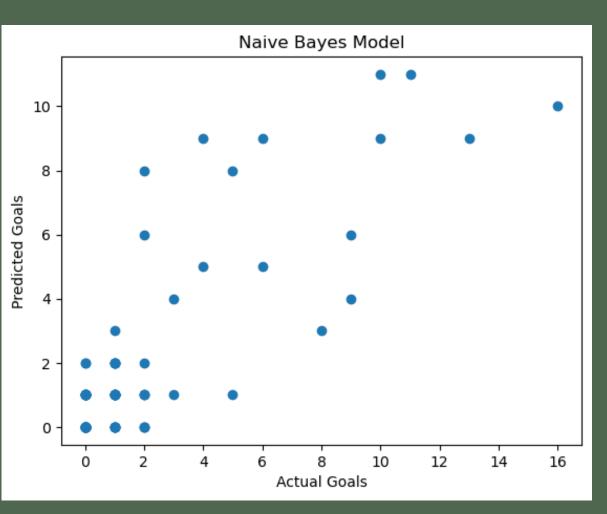


Predicting Goals

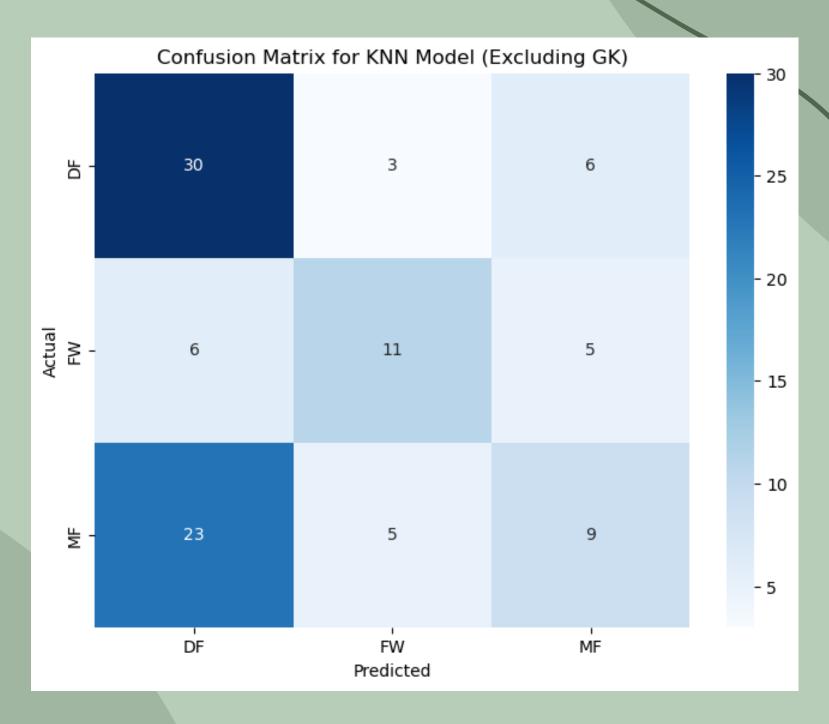
Model/Metric	Linear Regression Model	Naive Bayes Model	SVM Model
RMSE	1.831	1.640	2.109
R-squared	0.624	0.698	0.501







KNN Model-Positions



Accuracy-51.02%

Thank You