



Prepared by Harshvardhan and Tushar

Group Project

FIFA 21 Player Analysis Using Python

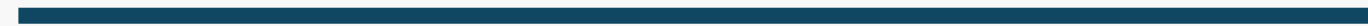
09 December, 2024



Introduction



This project focuses on analyzing player performance and market value using data from FIFA 21. Football is a global sport, and understanding player attributes is critical for team managers, analysts, and fans. Using the FIFA 21 dataset, we aim to explore trends in player skills, identify factors that drive market value, and predict future potential.



Basic Analysis

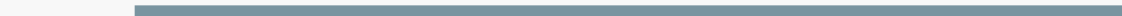


The dataset consists of 17125 rows and 105 columns.

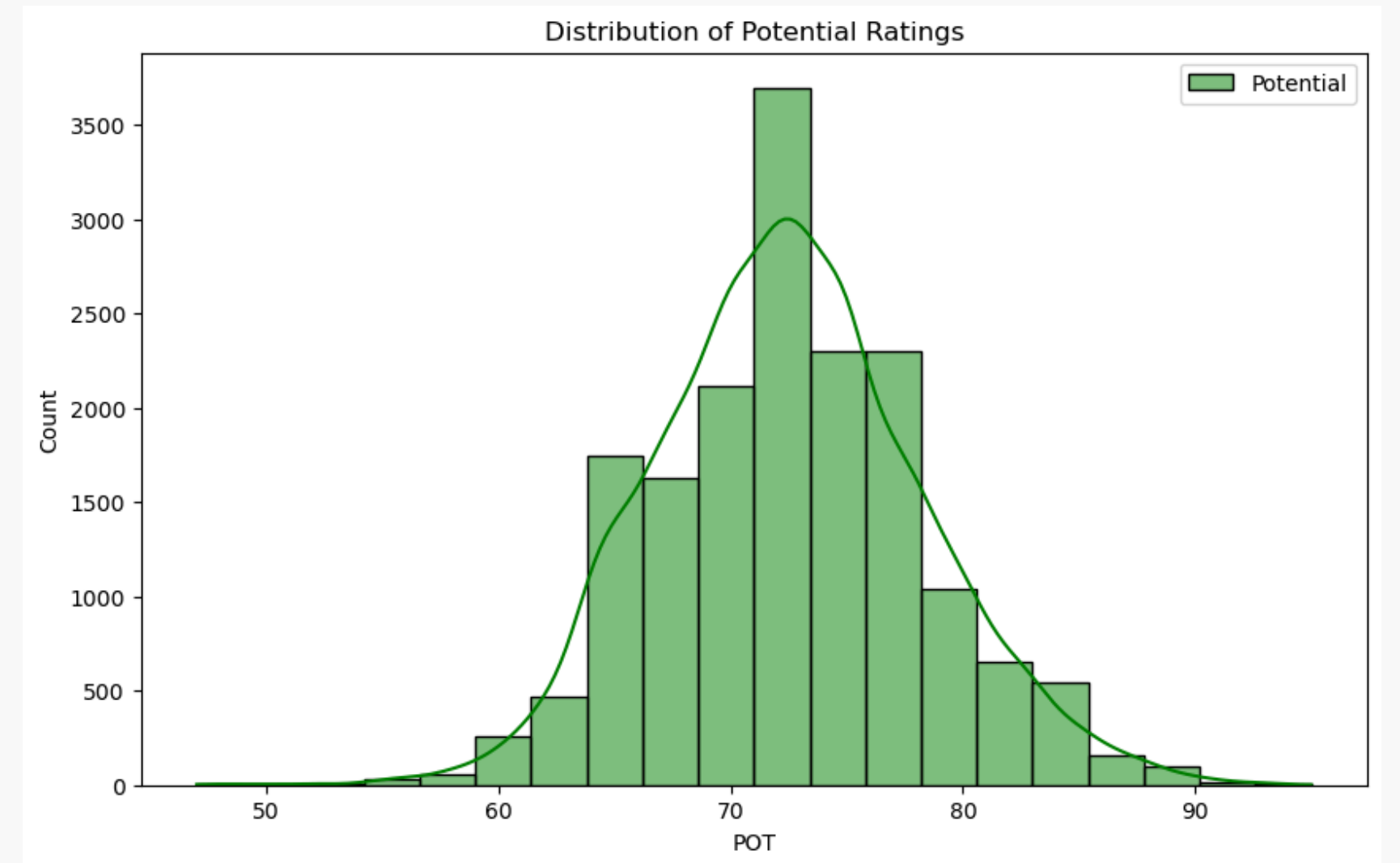
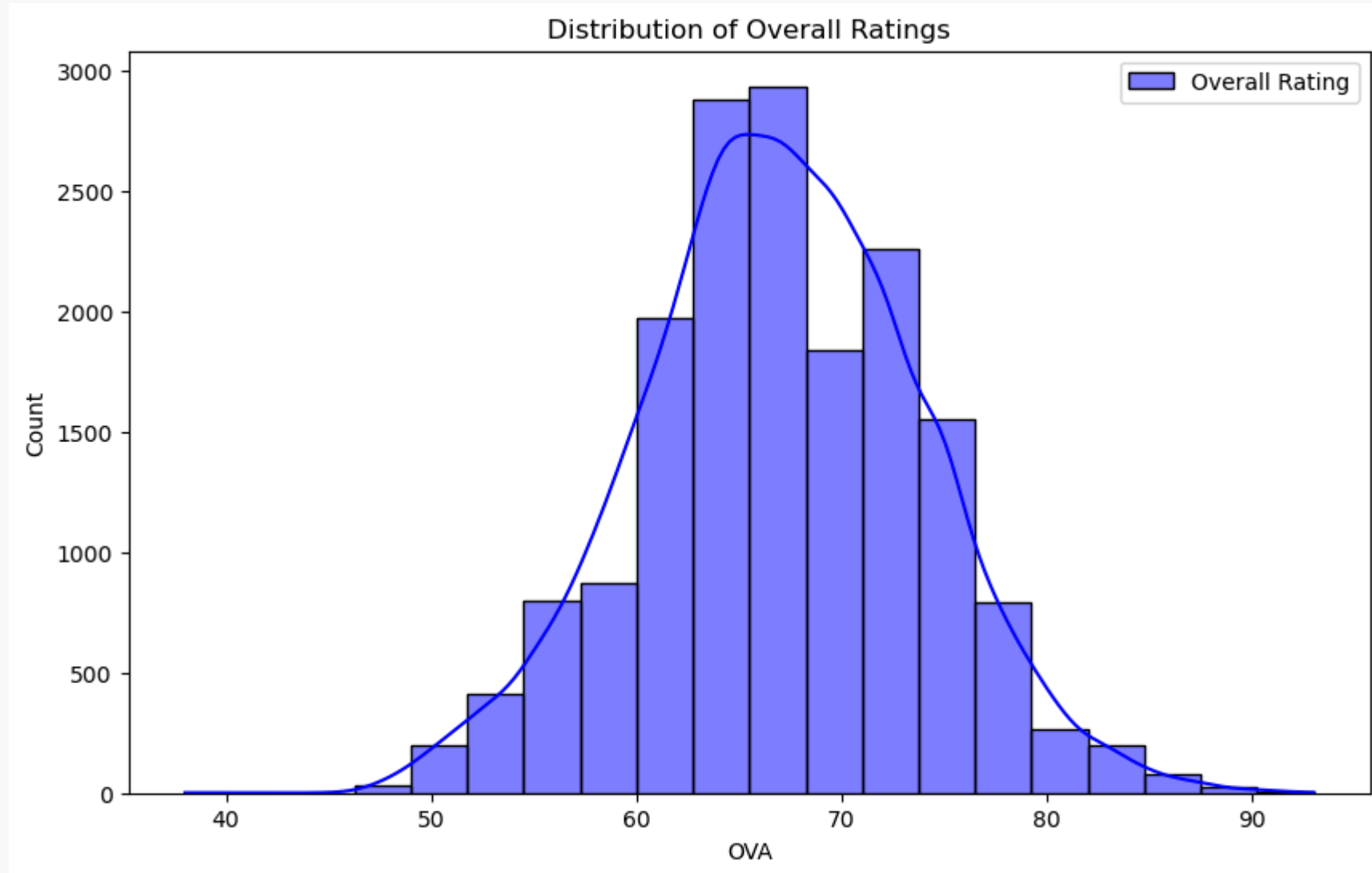


The dataset has 167 Nations and 917 Clubs

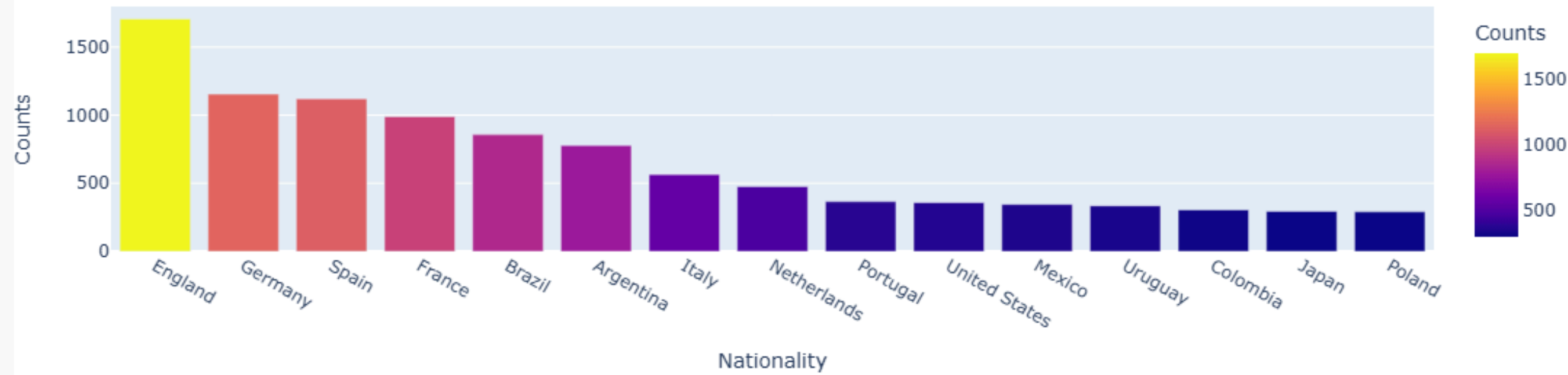
Total number of unique players: 16176



Performing Exploratory Data Analysis



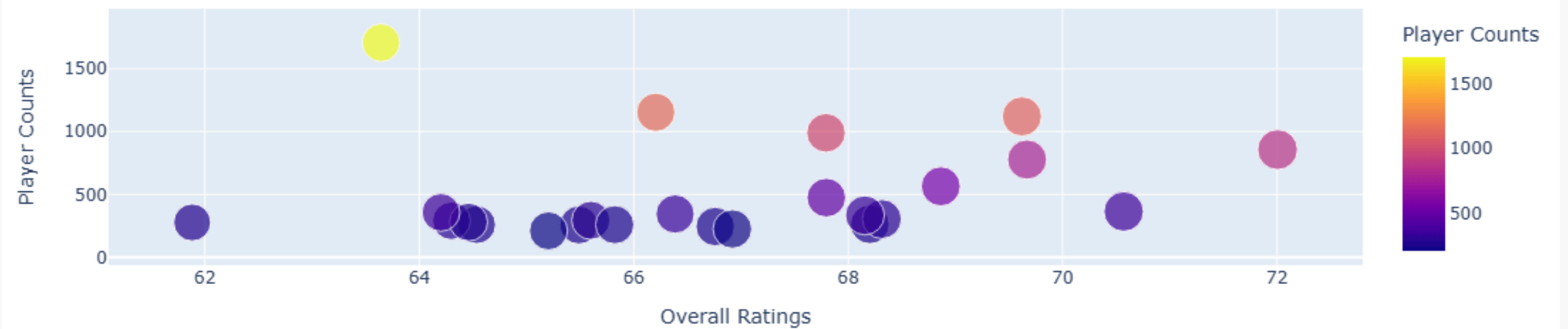
Top 15 Nation



The top 3 nations with the most players are England, Germany and Spain

Brazil is the country with the best overall players followed by Portugal and Argentina

Countries with Best Overall players



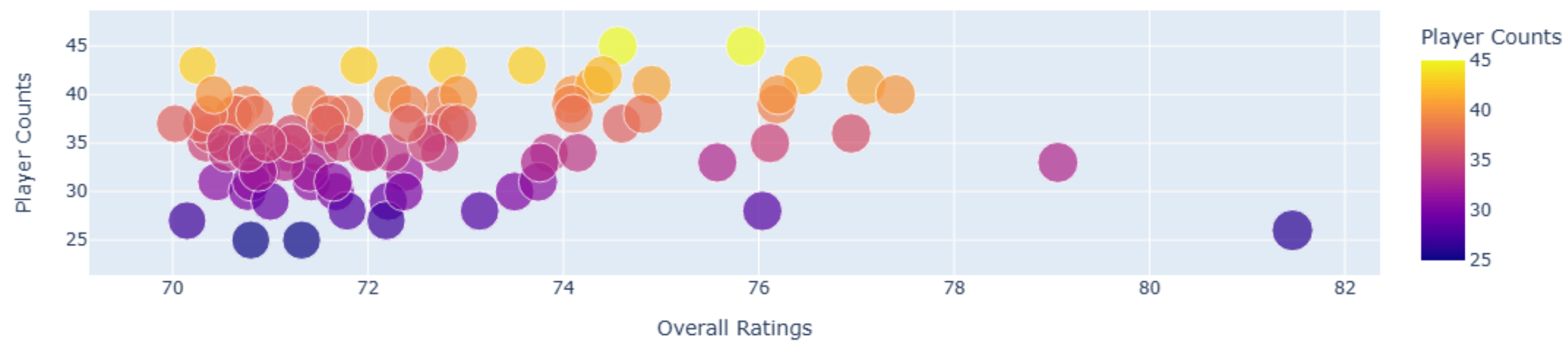
Top 15 Clubs



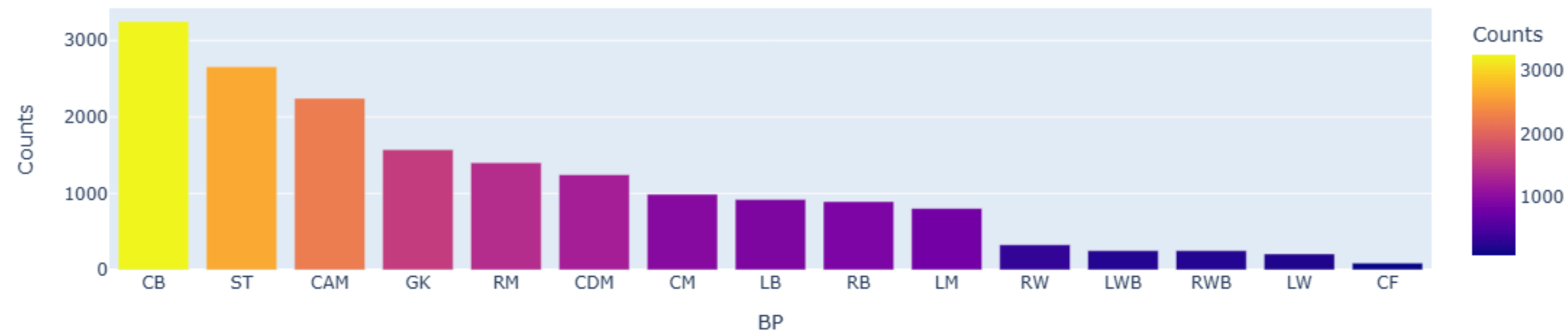
Manchester United, Bolton Wanderers and Chelsea are the top 3 teams with 45 players each

Bayern München is the club with the highest overall rating of 81.4. Real Madrid and Juventus are the next two clubs respectively.

Clubs with Best Overall players



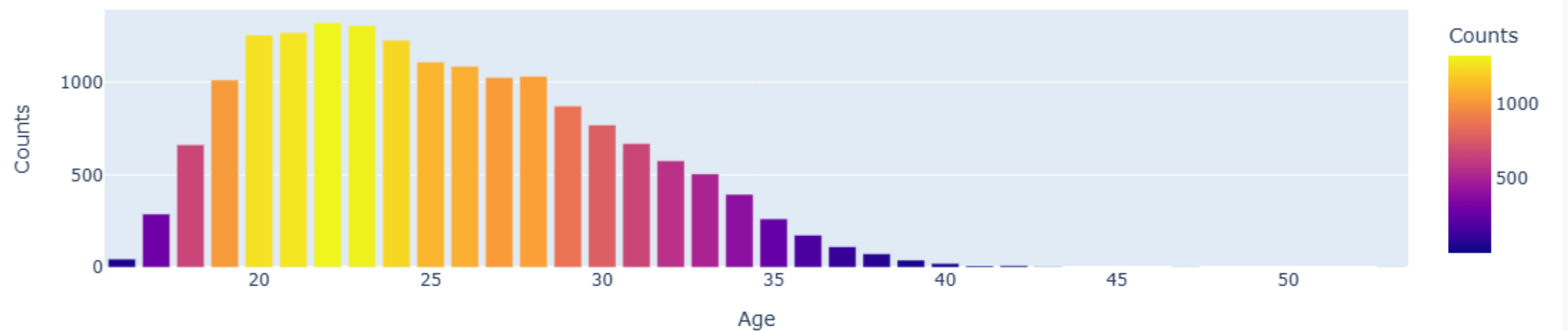
Positionwise Player counts in FIFA 21



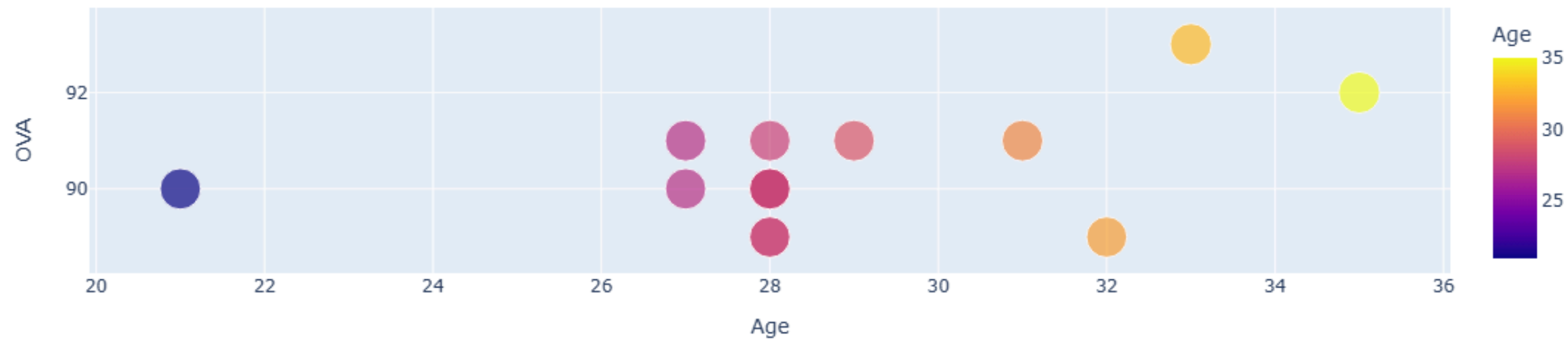
Center-back is the position with the most number of players with 3252 followed by Strikers and center-midfielder midfielders

Most number of players are in the age group of 22 and 23

Agewise distribution of players



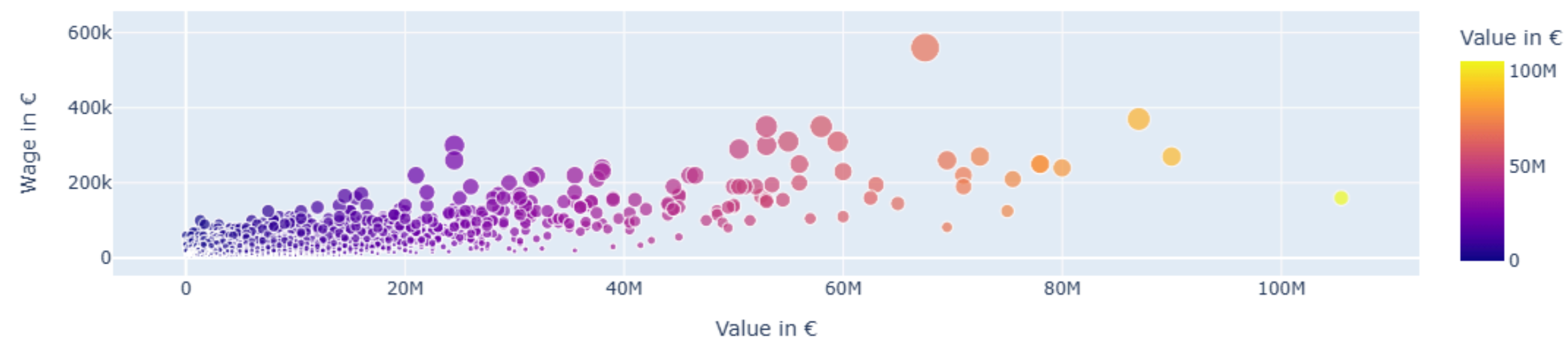
Top performers



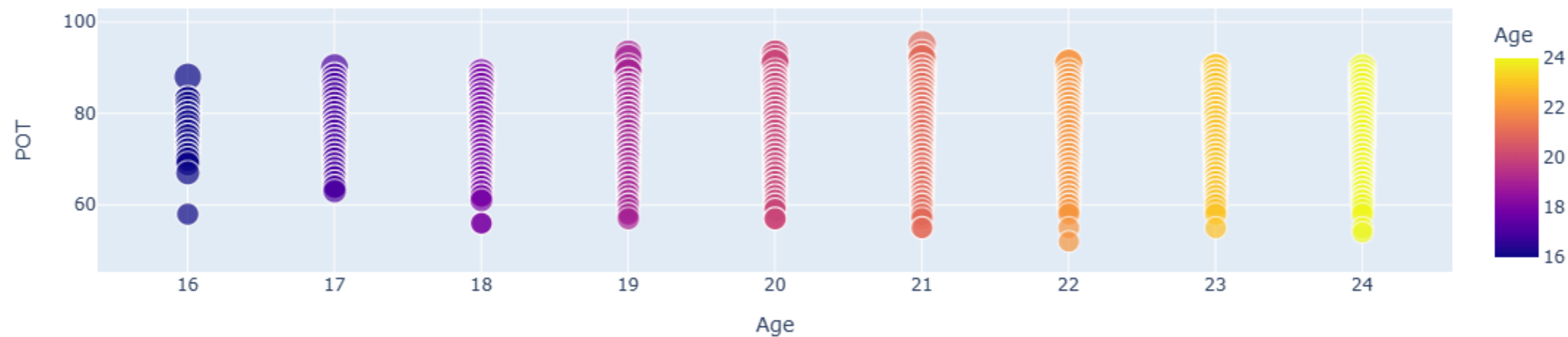
As expected Messi and Ronaldo are the two best players

Mbappe has the highest market value which is expected after his 2018 World Cup performance

Value vs Wage of all the Players



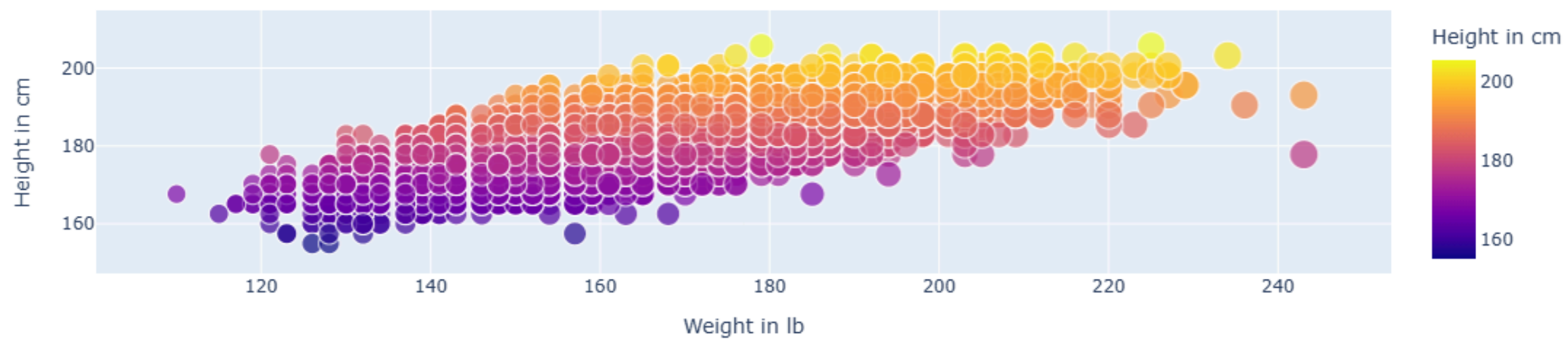
Age vs Maximum Potential Distribution of the young Players



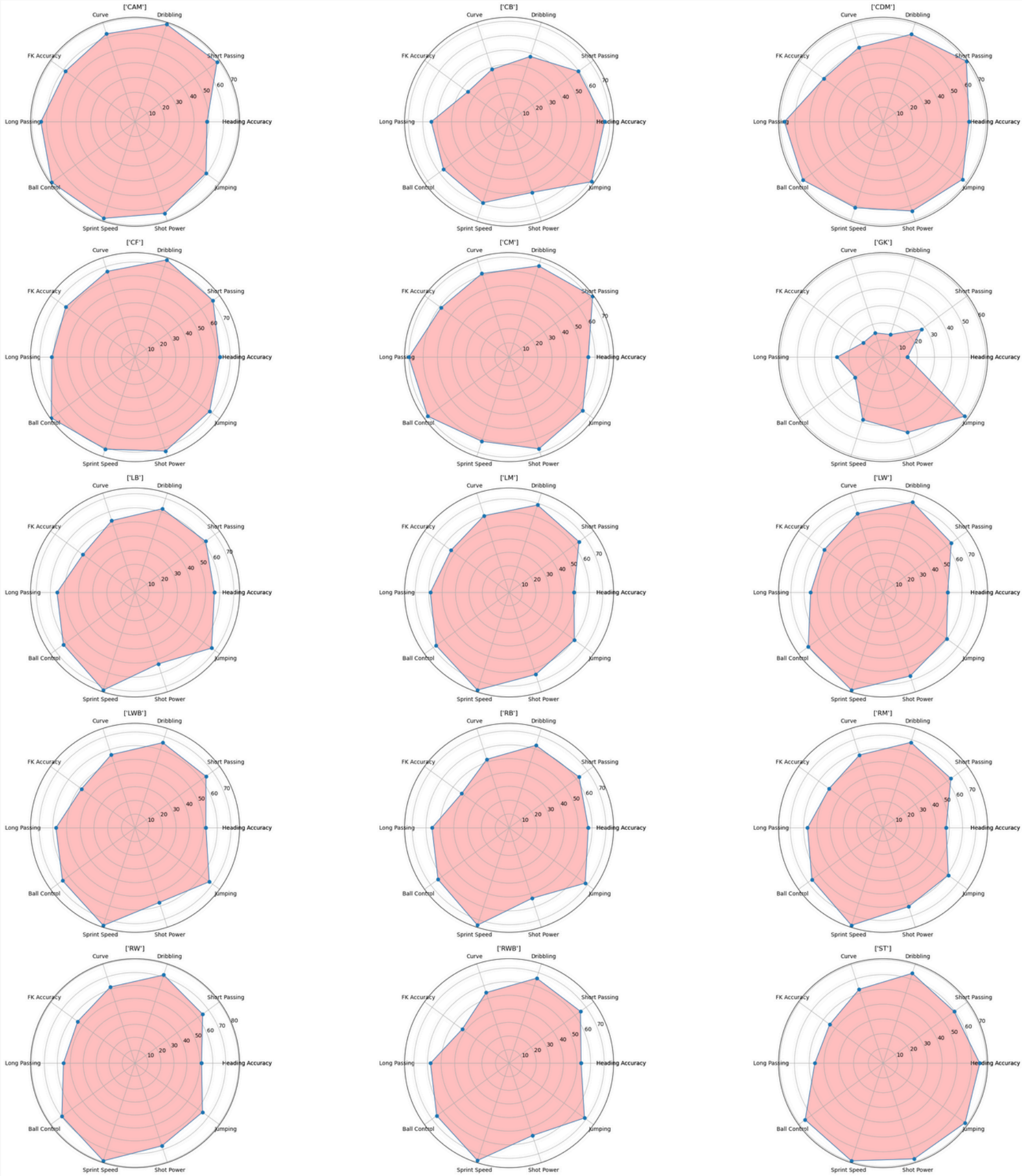
Mbappe has the height potential of anyone in the game with 95

T. Holy and J.Samnik are the tallest players in the game with height of 205.74 cm

Height vs Weight Variation of the players in FIFA 21



Overall Attributes of the Players





Thank you

