

FIFA-20

Exploratory Data Analysis



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Team ID: PTID-CDS-SEP-23-1652 | **Project ID:** PRCP-1004-Fifa20

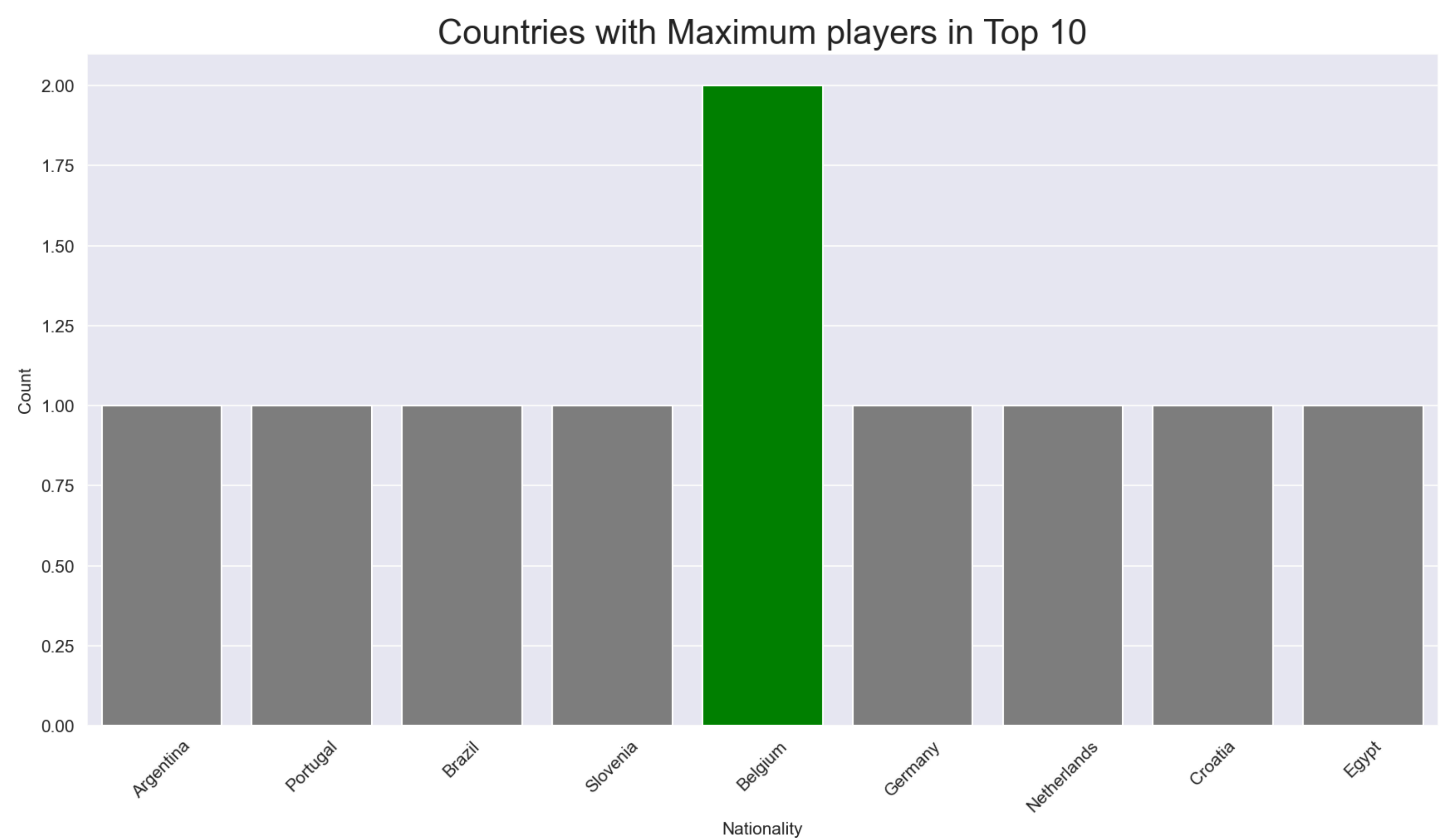
Objective | 3 Tasks

- Exploring football skills and cluster football players based on their attributes.
- Exploring the data and attempting all the below questions:
 - Prepare a rank ordered list of top 10 countries with most players. Which countries are producing the most footballers that play at this level?
 - Plot the distribution of overall rating vs. age of players. Interpret what is the age after which a player stops improving?
 - Which type of offensive players tends to get paid the most: the striker, the right-winger, or the left-winger?



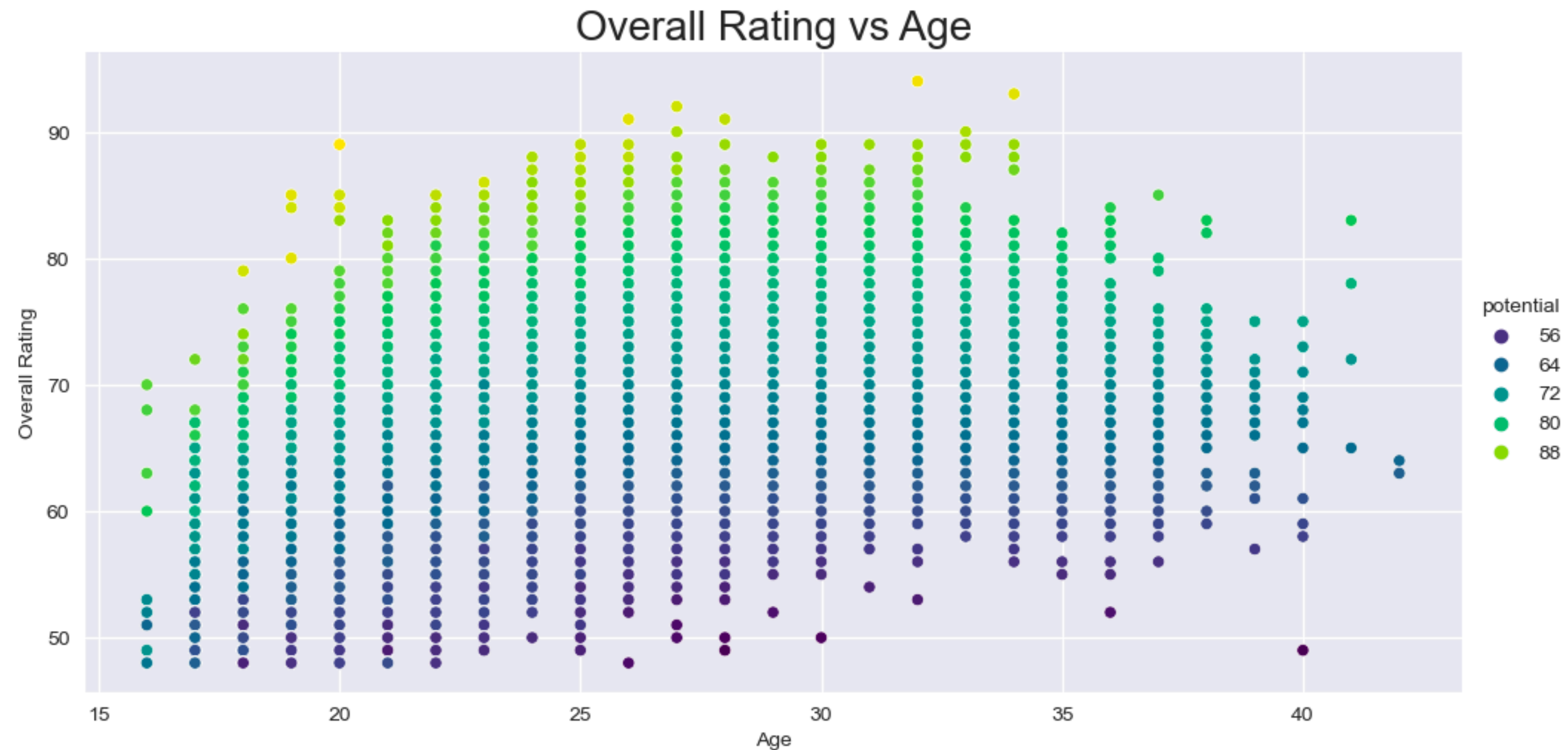
Insights | Country

Belgium has most Players in top 10



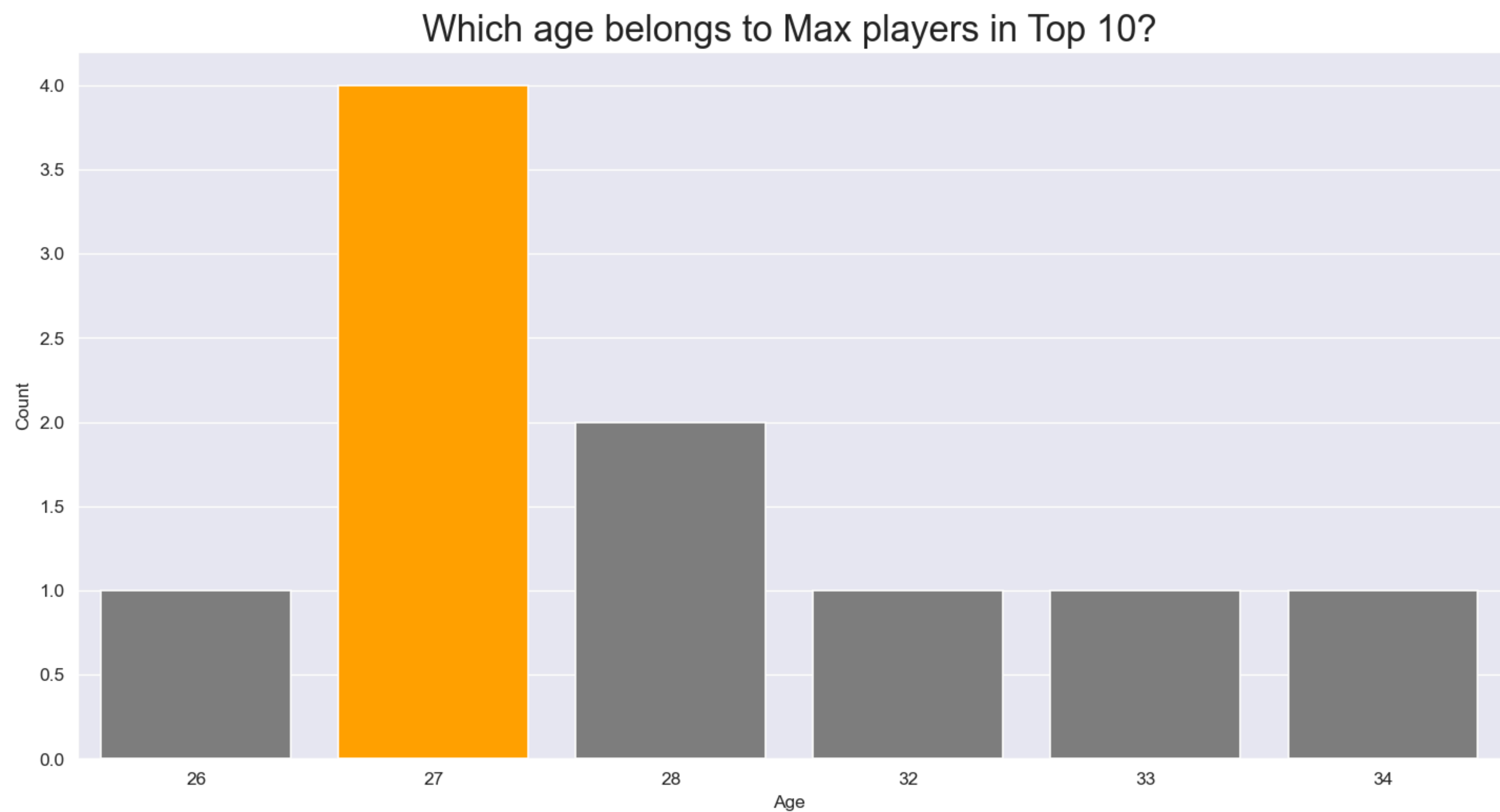
Insights | Age

- After age **32**, the Overall Rating does not seem to increase anymore
- General range for improvement in Overall Rating is **16 to 27** for most players



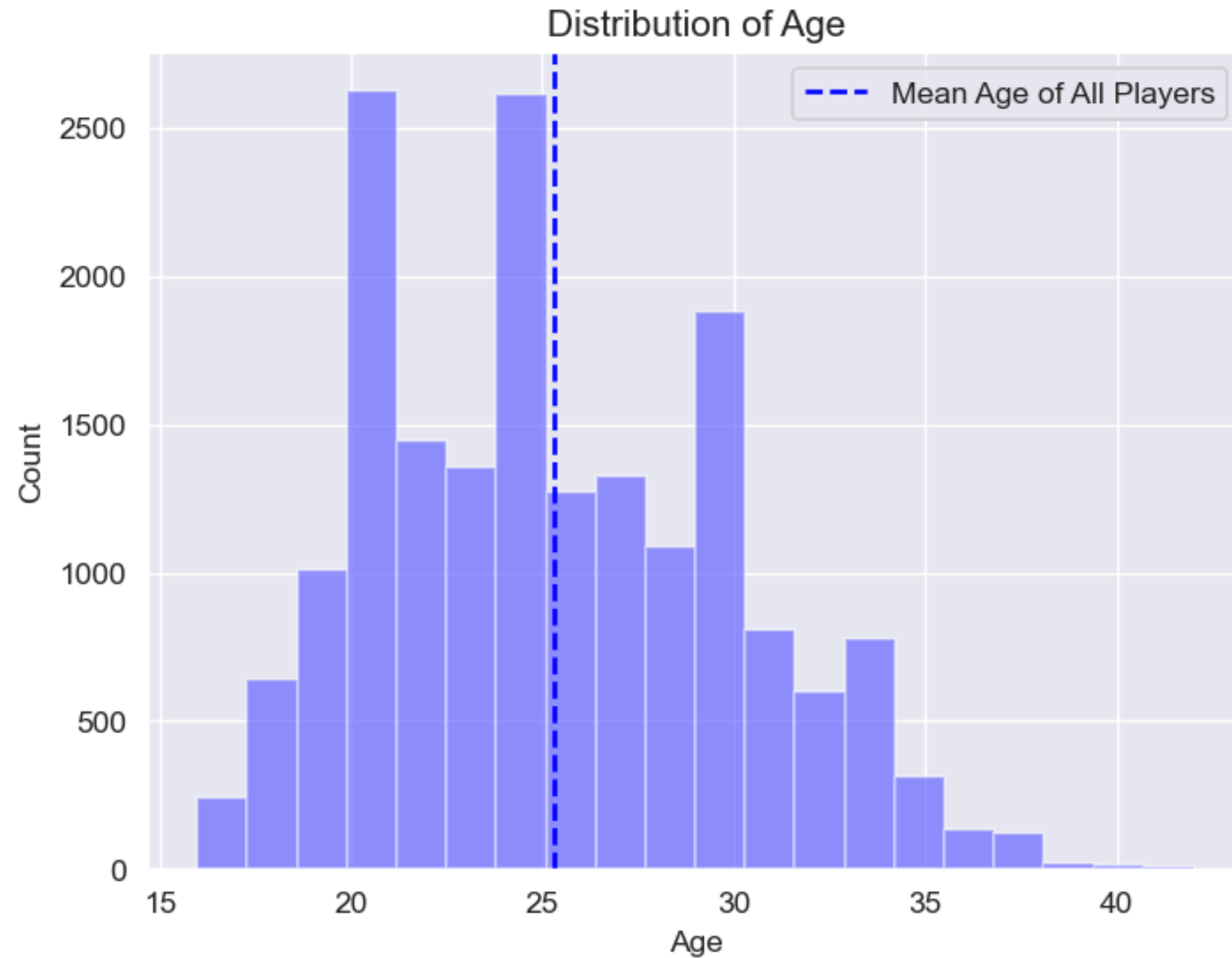
Insights | Age

27 is the maximum occurring Age for Players in top 10



Insights | Age

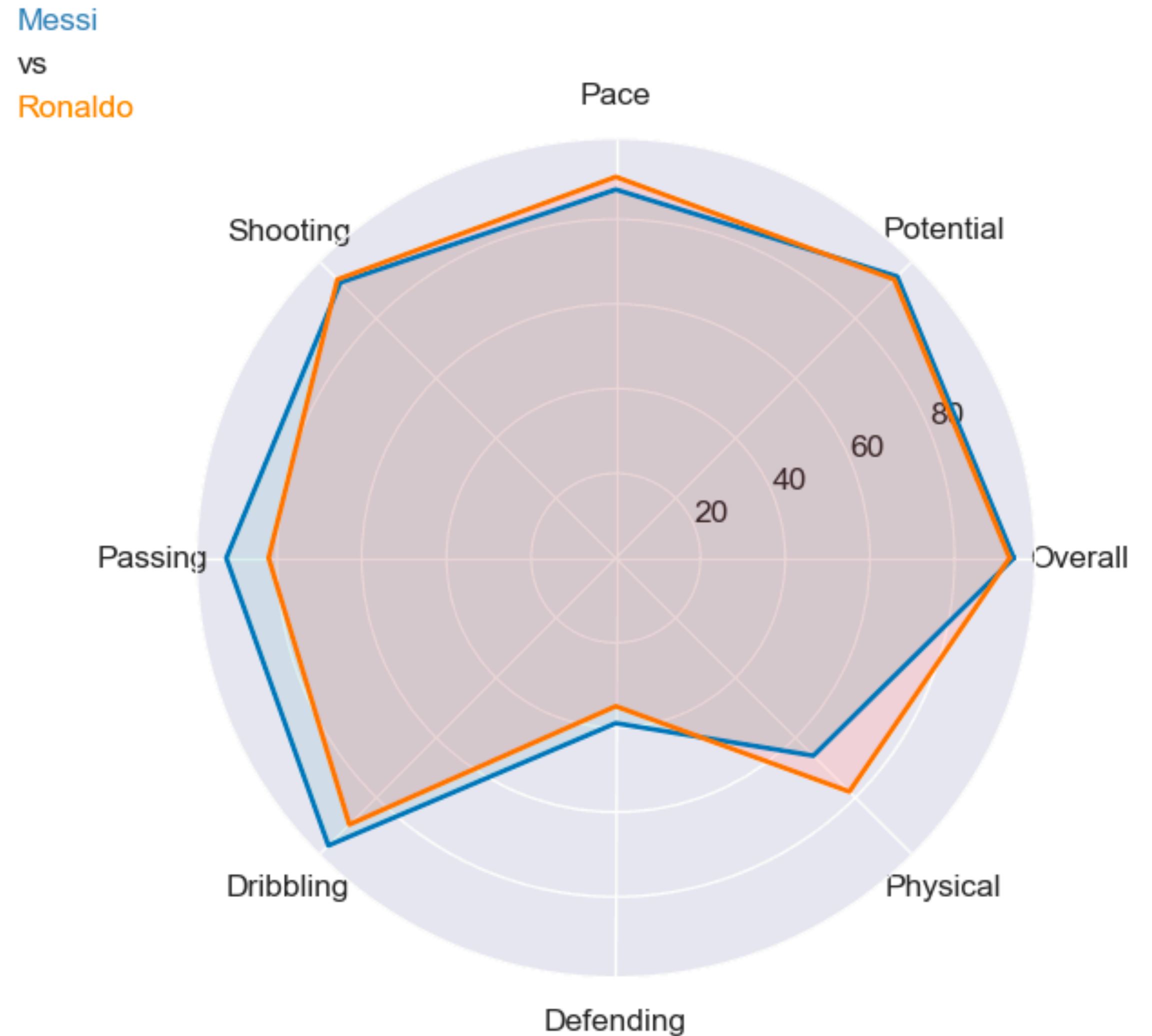
25 is the Mean Age for all Players



Insights | Skills

For given 8 skills:

- **Messi** performed well in **5**: Potential, Dribbling, Passing, Defending & Overall
- **Ronaldo** performed well in **3**: Pace, Shooting & Physical



Insights | Wage

- Both Strikers and Right Wingers have the same Median Wage as **1800000 EUR**
- But the **Right Winger** has the overall **Maximum** Wage
 - Maximum Wage for LW is: 90000000
 - Maximum Wage for ST is: 83000000
 - Maximum Wage for RW is: 95500000

Conclusion

FIFA 20 dataset provides a great opportunity to gather insights for various Football Teams, Clubs and Top Rated Players. We have performed Data Analysis & Visualisation on top performing 10 Players and collected insights for various Ages, Skills and Salaries for the players.