

WHO is the BEST Central Attacking Midfielder you can Afford?

Present by Group Seed





Project Introduction

Our 12-year-old client is devastated because his best CAM (Central Attacking Midfielder) player is injured, and now he might lose the competition to his cousins. So he came to us for consultation.

CAM is one of the most critical positions in football as they are responsible for creating chances and setting up goals. Having a skilled CAM player in your team is essential to succeed in FIFA.

We analyzed the FIFA database and listed the best players based on BOV using the Linear Regression model to give our client the best possible advice.

Overview of the FIFA dataset:

Total Number of records: 17.125

Total Number of features: 105

Types of features :

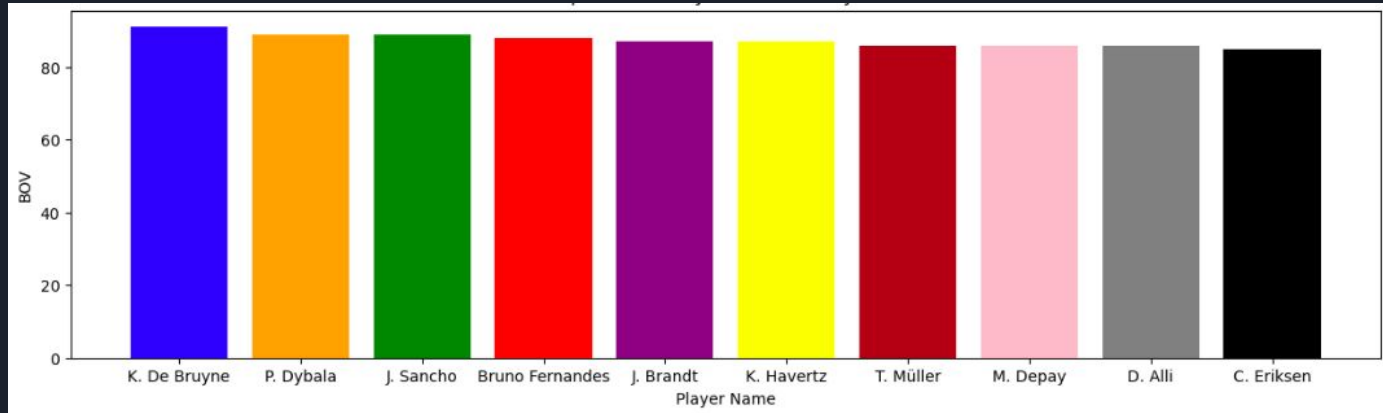
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Data columns (total 30 columns):
#  Column      Non-Null Count  Dtype
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0  id           17125 non-null    int64
1  name         17125 non-null    object
2  age          17125 non-null    int64
3  ova          17125 non-null    int64
4  nationality   17125 non-null    object
5  club         17102 non-null    object
6  bov          17125 non-null    int64
7  bp           17125 non-null    object
8  position     16712 non-null    object
9  pot          17125 non-null    int64
10 team_&_contract 17125 non-null    object
11 growth      17125 non-null    int64
12 value       17125 non-null    object
13 release_clause 17125 non-null    object
14 contract    17125 non-null    object
15 attacking   17125 non-null    int64
16 skill       17125 non-null    int64
17 movement   17125 non-null    int64
18 power       17125 non-null    int64
19 mentality   17125 non-null    int64
20 defending     17125 non-null    int64
21 goalkeeping 17125 non-null    int64
22 total_stats 17125 non-null    int64
23 base_stats  17125 non-null    int64
24 pac         17125 non-null    int64
25 sho         17125 non-null    int64
26 pas         17125 non-null    int64
27 dri         17125 non-null    int64
28 def         17125 non-null    int64
29 phy         17125 non-null    int64
dtypes: int64(21), object(9)
```

Our target: BOV= Overall Rating in the Best position

The features we considered:

Age, Value, Attacking, Movement, Mentality, Total Stats, Potential, PAC, SHO, PAS, DRI, DEF, PHY, etc...

Top 10 CAM players:

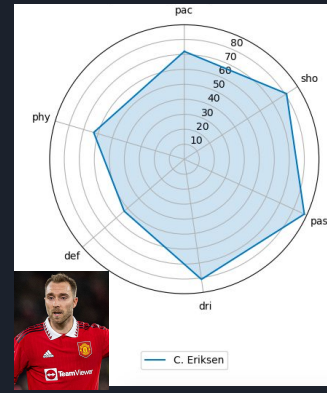
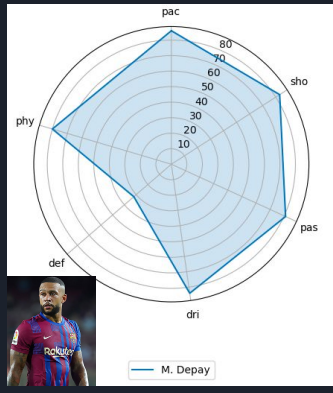
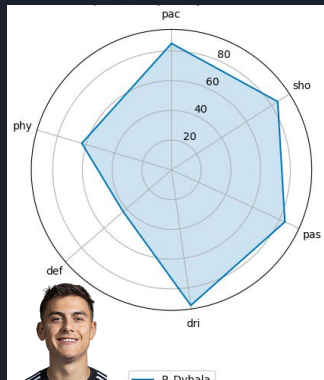
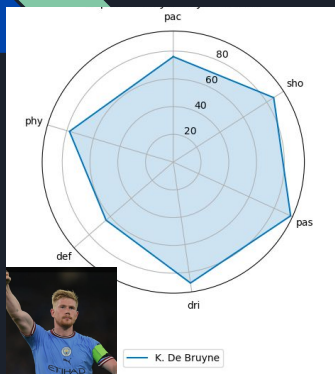


Criteria:

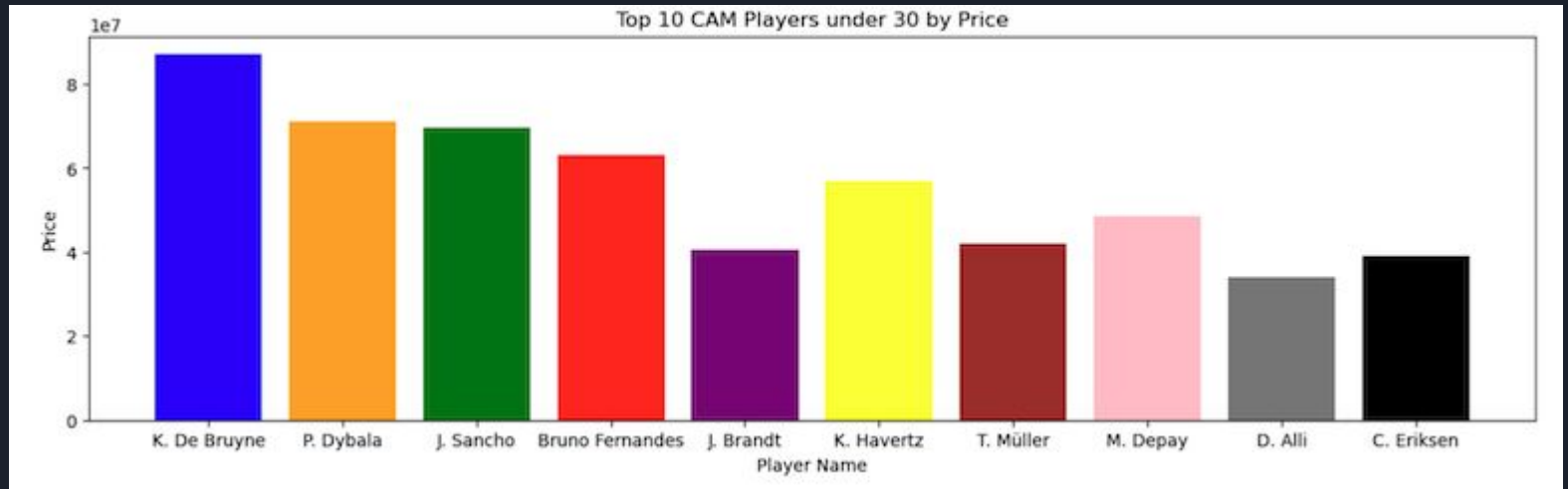
Age : ≤ 30

Position: Center Attacking Midfielder

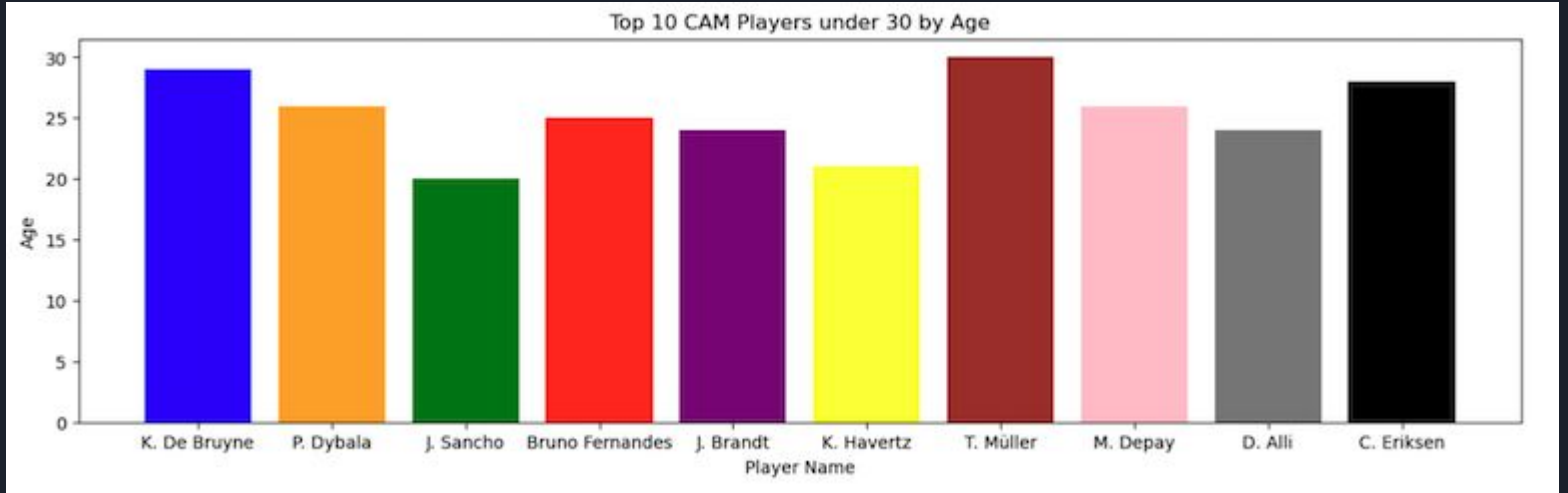
Comparison of top CAM players Under 30 YO



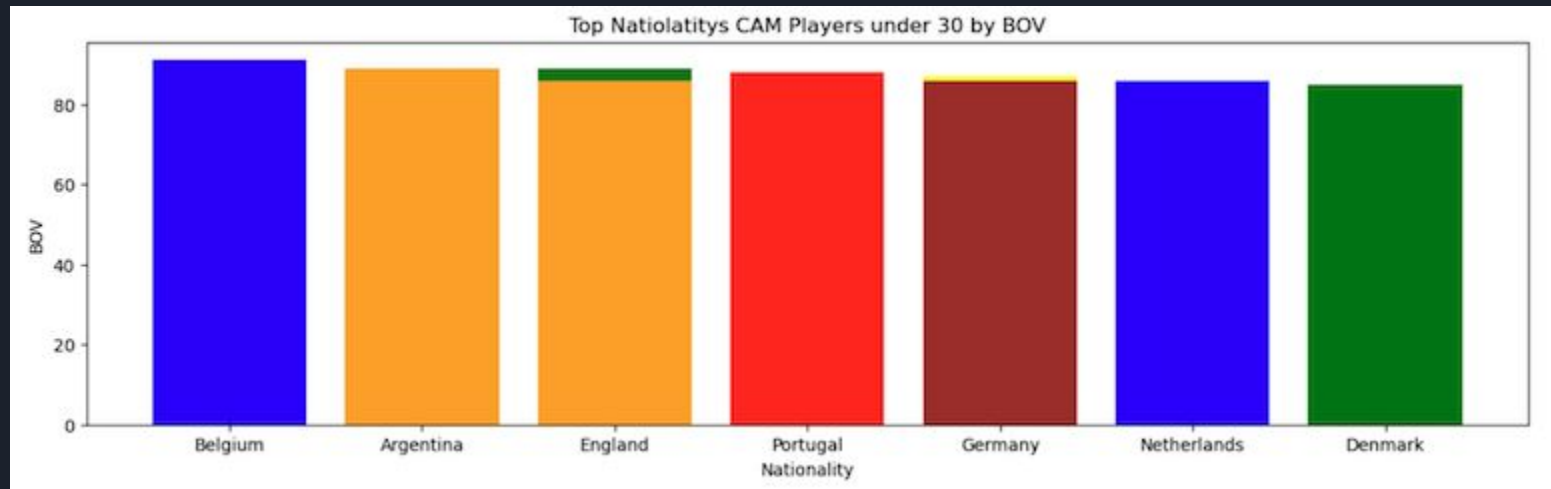
CAM players Based on Price



CAM players Based on Age



CAM players Based on Nationality



Conclusion

Factors are strongly correlated with player performance in FIFA

Table 3: Description and range of possible value in calculated ability attributes

Calculated Ability Attributes	Calculation formula	Range of Possible Value
PAC	$(\text{Sprint Speed} + \text{Acceleration})/2$	1-99
SHO	$(\text{Finishing} + \text{Long Shots} + \text{Shot Power})/3$	1-99
PAS	$(\text{Crossing} + \text{Short Passing} + \text{Long Passing})/3$	1-99
DRI	$(\text{Ball Control} + \text{Agility} + \text{Balance})/3$	1-99
DEF	$(\text{Marking} + \text{Tackling} + \text{Strength})/3$	1-99
PHY	$(\text{Strength} + \text{Stamina} + \text{Jumping})/3$	1-99
Attacking	$\text{Crossing} + \text{Finishing} + \text{Heading Accuracy} + \text{Short Passing} + \text{Volleys}$	5-495
Skill	$\text{Dribbling} + \text{Curve} + \text{FK Accuracy} + \text{Long Passing} + \text{Ball Control}$	5-495
Movement	$\text{Acceleration} + \text{Agility} + \text{Sprint Speed} + \text{Reactions} + \text{Balance}$	5-495
Power	$\text{Shot Power} + \text{Jumping} + \text{Stamina} + \text{Strength} + \text{Long Shots}$	5-495
Defending	$\text{Marking} + \text{Sliding Tackle} + \text{Standing Tackle}$	3-297
Mentality	$\text{Aggression} + \text{Reactions} + \text{Positioning} + \text{Interceptions} + \text{Vision} + \text{Composure}$	6-594
Goalkeeping	$\text{GK Positioning} + \text{GK Diving} + \text{GK Handling} + \text{GK Kicking} + \text{GK Reflexes}$	5-495
Overall Rating	Overall rating in position	1-99
BOV	Overall rating in best position	1-99
Base stats	$\text{PAC} + \text{SHO} + \text{PAS} + \text{DRI} + \text{DEF} + \text{PHY}$	6-594
Total stats	Sum of total 35 ability elements	39-3500

Conclusion

Best Player for Center Attacking Midfielder



J. Sancho

Jadon Malik Sancho is an English professional footballer who plays for Premier League club Manchester United and the England national team. Considered one of the best young players in the world, he is known for his trickery, game intelligence and use of feints in one-on-one situations.