

This is a report on the **Pro Kabaddi Hackathon 2019 Season -7** with the estimated and predicted teams and players under multiple category.

The Analysis **purely involves EDA** and application of Rules. There are **no predictive algorithm** involved at any stage of analysis.

Problem statement:

- Task 1: Predict the winner of the tournament. (Max Points: 05)
- Task 2: Predict the top team in the points table after the completion of the league matches. (Max Points: 05)
- Task 3: Predict the team with the highest points for successful raids. (Max Points: 05)
- Task 4: Predict the team with the highest points for successful tackles. (Max Points: 05)
- Task 5: Predict the team with the highest super-performance total. (Max Points: 05)
- Task 6: Predict the player with the highest SUCCESSFUL RAID percentage. (Max Points: 05)
- Task 7: Predict the player with the highest SUCCESSFUL TACKLE percentage. (Max Points: 05)

Solution: Task 1 Predict the winner of the tournament. (Max Points: 05)

Steps:

- find best of 6 from league
- compare #3 vs #6 for eliminator 1 => el1
- compare #4 vs #5 for eliminator 2 => el2
- compare #1 vs el1 => semi1
- compare #2 vs el2 => semi2
- compare semi1 vs semi2 => final

The comparison of two teams is done on the basis of their head on head performance, score difference between the teams where they have own and then score difference in different categories.

Based on the above mentioned conditions:

Predicting Eliminator 1

Between Rank #3 vs Rank #6

Bengaluru Bulls vs Puneri Paltan

Predicted winner Eliminator 1: **Puneri Paltan**

Predicting Eliminator 2

Between Rank #4 vs Rank #5

Patna Pirates vs Haryana Steelers

Predicted winner Eleminator 2: **Haryana Steelers**

Predicting Semifinals 1

Between Rank #1 vs Eliminator #1

Dabang Delhi vs Puneri Paltan

Predicted winner Semifinal 1: **Dabang Delhi**

Predicting Semifinals 2

Between Rank #2 vs Eliminator #2

Bengal Warriors vs Haryana Steelers

Predicted winner Semifinal 2: **Bengal Warriors**

Predicting Finals

Between Semifinals #1 vs Semifinals #2

Dabang Delhi vs Bengal Warriors

Predicted winner final: **TIE**

But if we consider the past performance one match between Dabang Delhi vs Bengal Warriors: match - 45

Bengal Warriors had one point extra in raiding while Dabang Delhi had one point extra in Extra points.

Giving an higher priority to raiding against Extra point we have decided to go with the final winner as

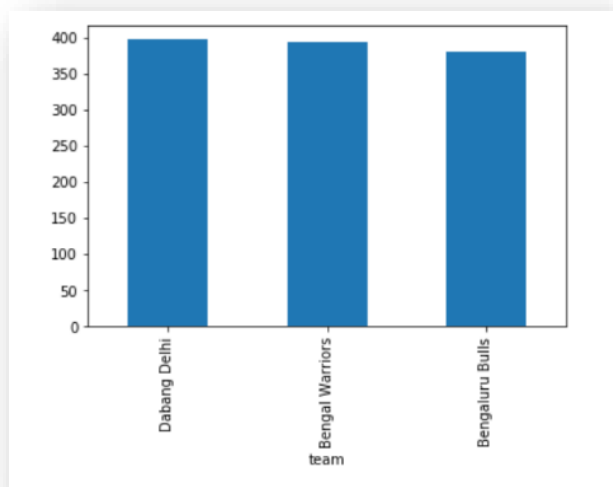
"Bengal Warrior"

Solution: Task 2 Predict the top team in the points table after the completion of the league matches. (Max Points: 05)

The final result for this task is obtained by taking the averaged performance of each team so far based on their raid tackle all out and extra points in each match.

Top Team in point table after league:

"Dabang Delhi"

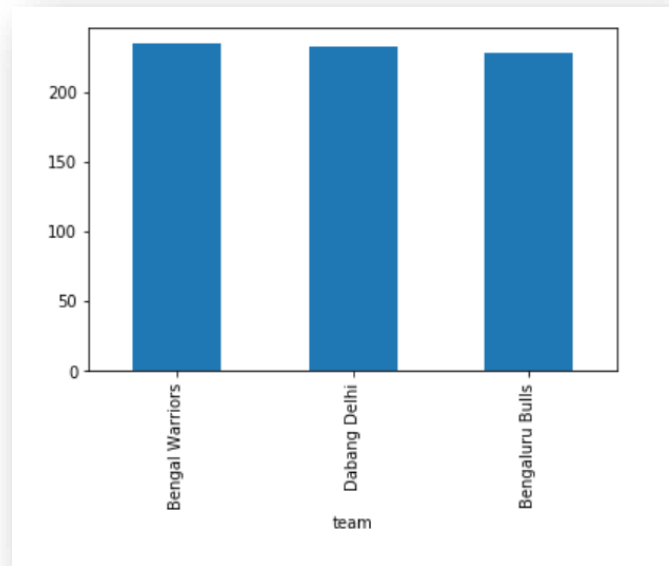


Solution: Task 3 Predict the team with the highest points for successful raids. (Max Points: 05)

The final result for this task is obtained by taking the averaged performance of each team so far based on their successful raid points in each match.

Top Team in point table with highest successful raid:

"Bengal Warriors"

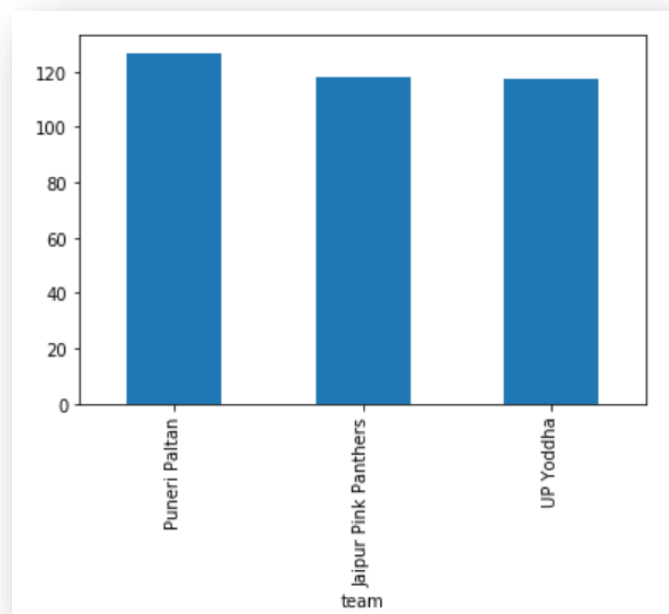


Solution: Task 4 Predict the team with the highest points for successful tackles. (Max Points: 05)

The final result for this task is obtained by taking the averaged performance of each team so far based on their successful tackle points in each match.

Top Team in point table with highest successful tackle:

"Puneri Palatan"



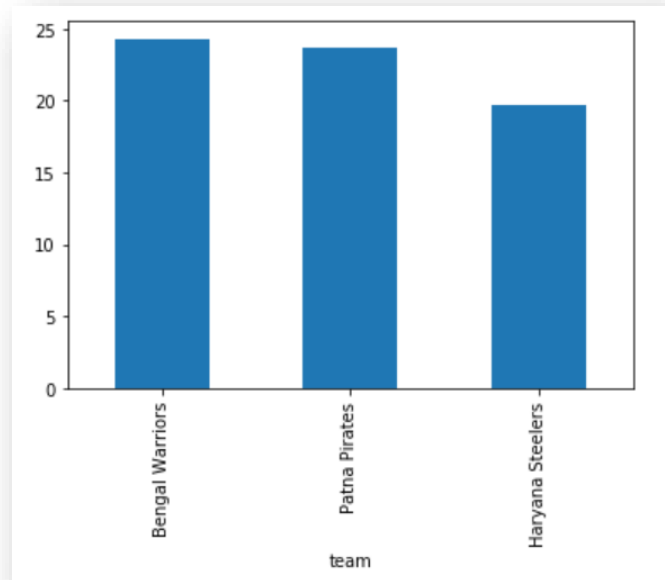
Solution: Task 5 Predict the team with the highest super-performance total. (Max Points: 05)

Super Performance = Total number of super-raids in the tournament + Total number of super-tackles in the tournament + Total number of all-outs inflicted in the tournament - Total number of all-outs conceded in the tournament

The final result for this task is obtained by taking the averaged performance of each team so far based on the above formula for Super Performance in each match.

Top Team in point table with highest super performance:

"Bengal Warrior"



Solution: Task 6 Predict the player with the highest SUCCESSFUL RAID percentage. (Max Points: 05)

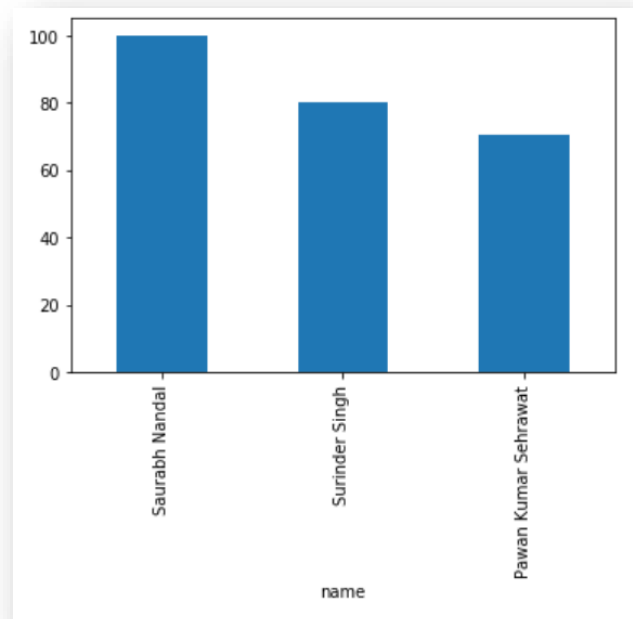
SUCCESSFUL RAID percentage = (Successful raids/Total raids) x 100

The final result for this task is obtained by taking the averaged performance of each player so far based on their successful raids points and total raids attempted in each match as given in the formula above.

Top Player with highest successful raid %:

"Saurabh Nandal"

Considering more than 10 matches played



Solution: Task 7 Predict the player with the highest SUCCESSFUL TACKLE percentage. (Max Points: 05)

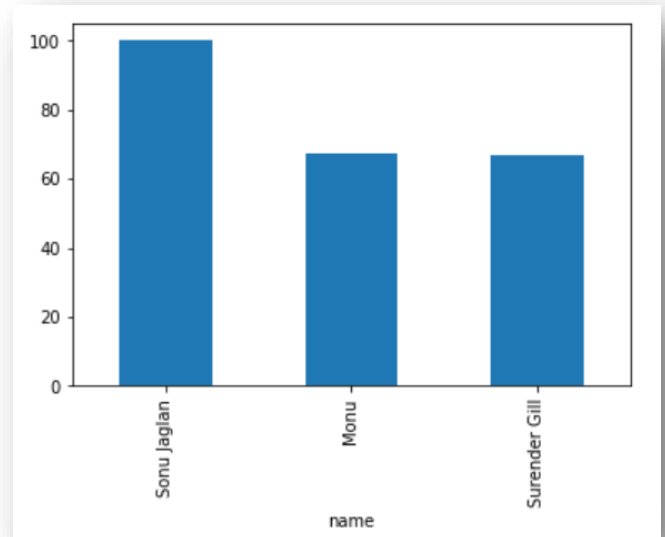
SUCCESSFUL TACKLE percentage = (Successful tackles/Total tackles) x 100

The final result for this task is obtained by taking the averaged performance of each player so far based on the above formula for successful tackle percentage in each match.

Top Player with highest successful tackle %:

"Sonu Jaglan"

Considering more than 10 matches played



Thank You..!!