

Case Study for Paypal:

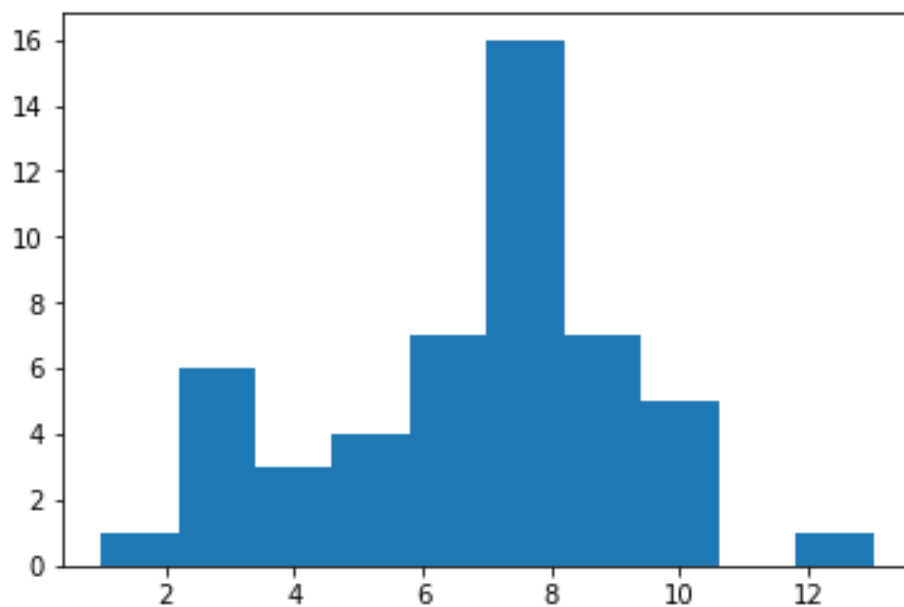
Jayavignesh G

23-07-2021

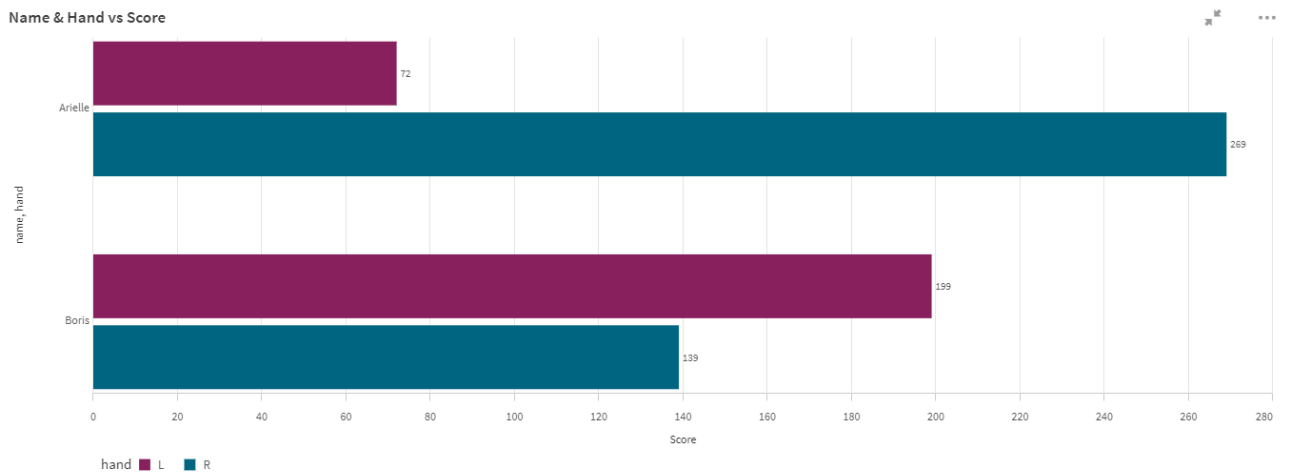
1) Studying the Data/ Distribution:

The data looks well diverse and following a normal distribution. Below are some analysis done in Python.

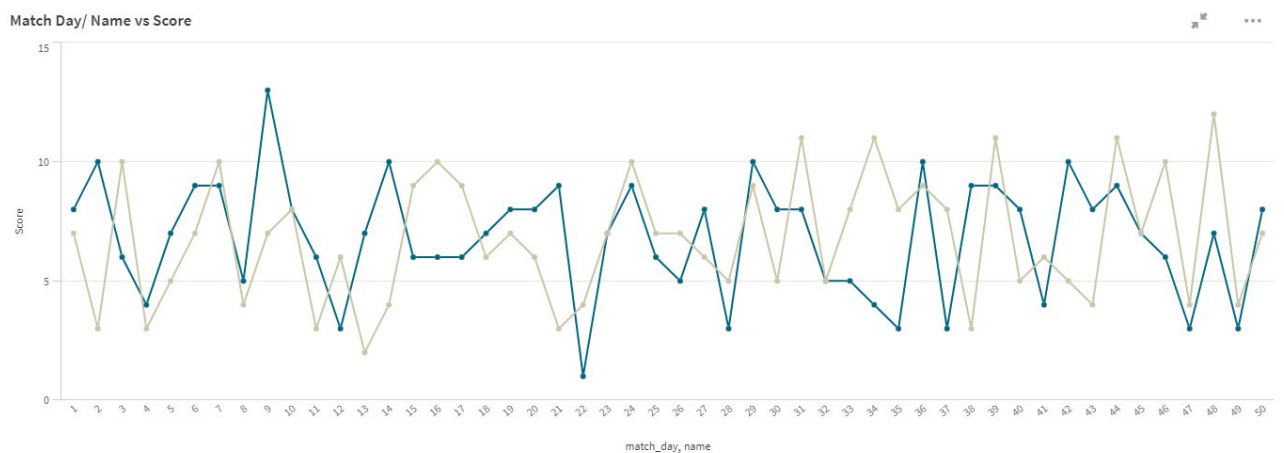
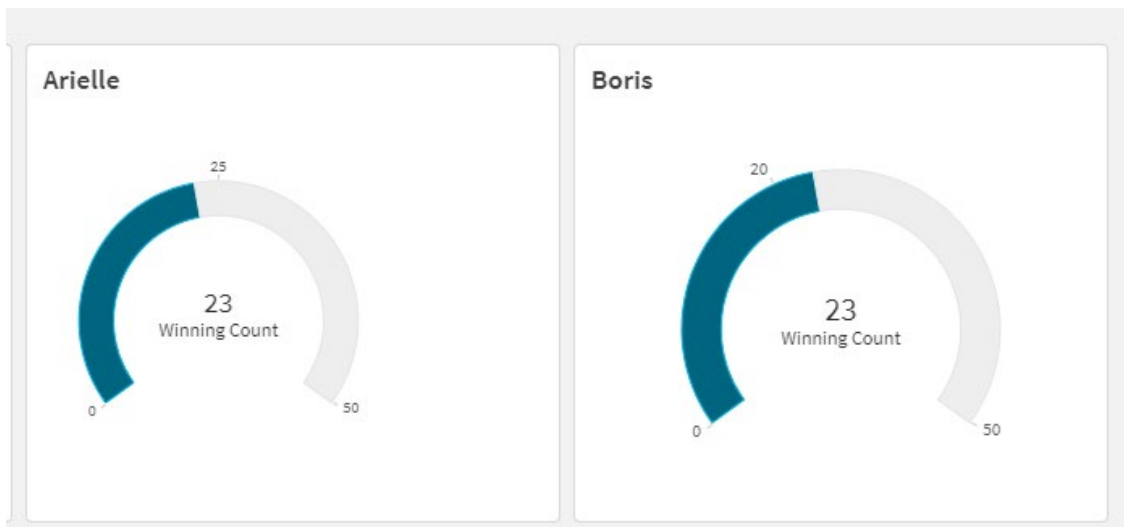
	match_day	score	attempts
count	100.00000	100.000000	100.0
mean	25.50000	6.790000	20.0
std	14.50357	2.539765	0.0
min	1.00000	1.000000	20.0
25%	13.00000	5.000000	20.0
50%	25.50000	7.000000	20.0
75%	38.00000	9.000000	20.0
max	50.00000	13.000000	20.0



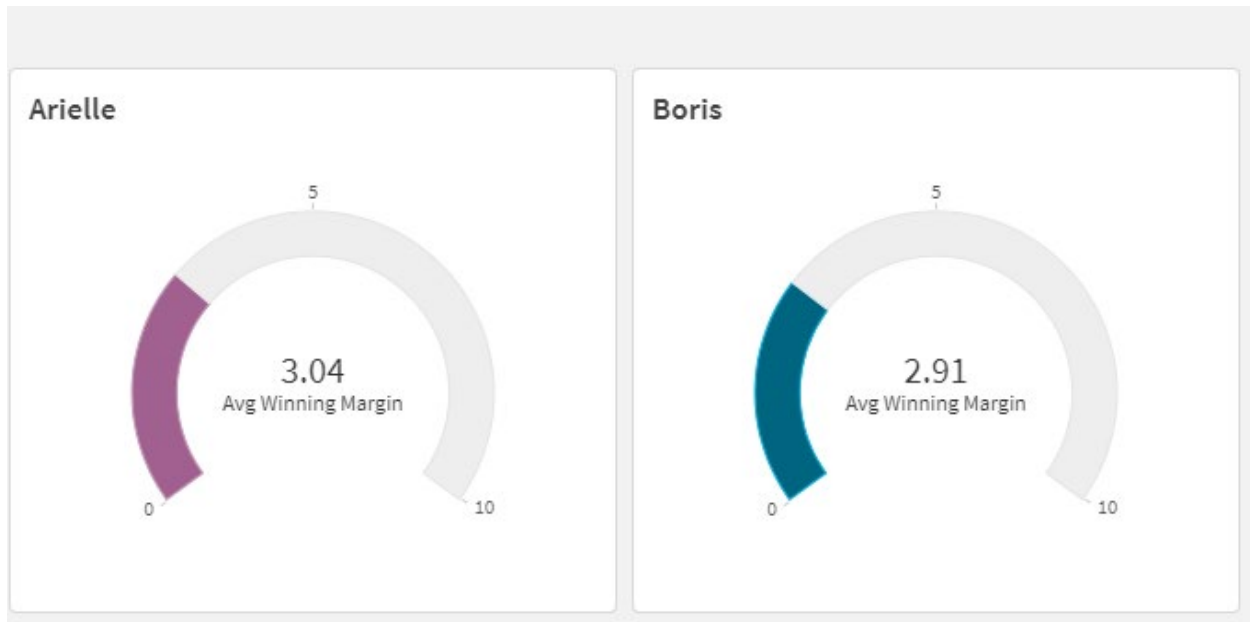
- 2) Descriptive analysis (using Qlik Sense): At a first glance Arielle seem to have scored 341 out of 100 attempts whereas Boris have scored little less 338 out of 100 attempts.



- 3) Winnings by match day: Here also, both seem to have won 23 days out of 50 days.



- 4) The average winning margin score for Arielle seem to be more than Boris.



- 5) Let's analyze using another important dimension "Hand".

Row Labels	Sum of attempts	Sum of score	%
Arielle	1000	341	34.10%
L	300	72	24.00%
R	700	269	38.43%
Boris	1000	338	33.80%
L	700	199	28.43%
R	300	139	46.33%
Grand Total	2000	679	33.95%

From above, both Arielle and Boris seem to be strong at right hand as they have high winning margins in same. So we can make an assumption as **'right hand' is a dominant hand** for both Arielle and Boris.

- 6) Looking at the success rates Hand shows Boris is better than Arielle which is against our initial inferences.

Sucess Rates by Hand		
	Arielle	Boris
Left	24.00%	28.43%
Right	38.43%	46.33%
	14.43%	17.90%

- 7) Looks like Arielle has taken 700 attempts from his dominant right hand whereas Boris has made many attempts with his non-dominant hand which has relatively low success rates.

Sucess Rates #attempts			
	Arielle	Boris	Difference
300 attempts	24%	46%	22%
700 attempts	38%	28%	10%
	14%	18%	

If Boris have played more attempts in right hand, below would be the results considering the success rates are true. From below, it is evident that **Boris is a better player than Arielle.**

Right Hand	Score	Attempt
Arielle	269	700
Boris	324	700

55

Left Hand	Score	Attempt
Arielle	72	300
Boris	85	300

13

- 8) To confirm the above, we assume both have taken all 1000 attempts in their dominant right hand. This also confirms that Boris is a better player.

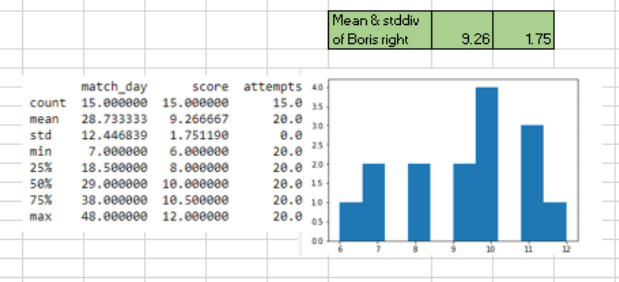
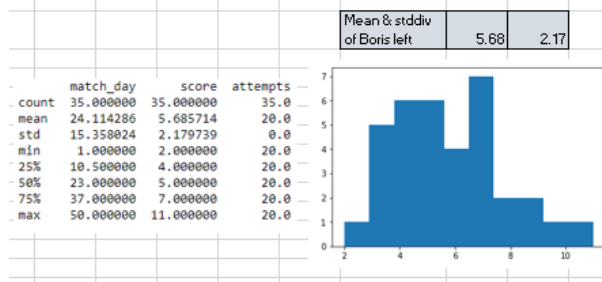
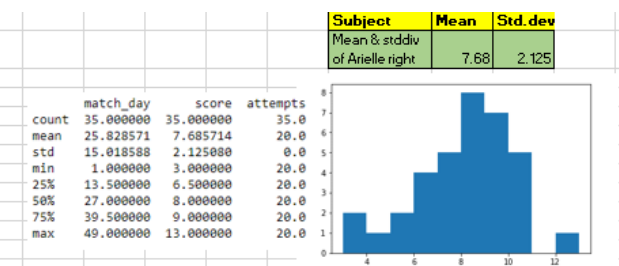
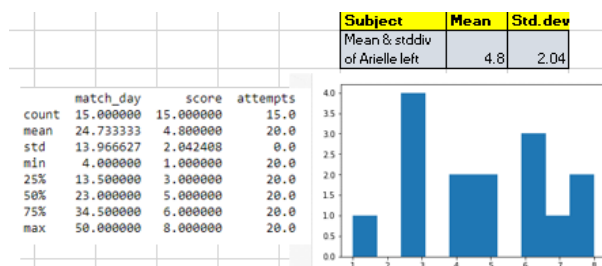
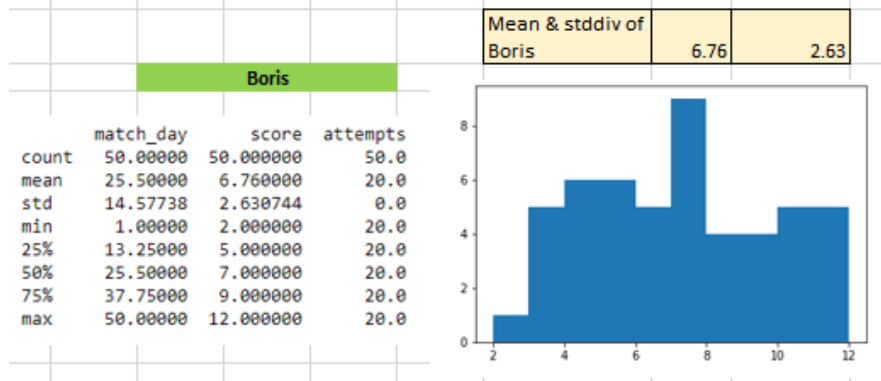
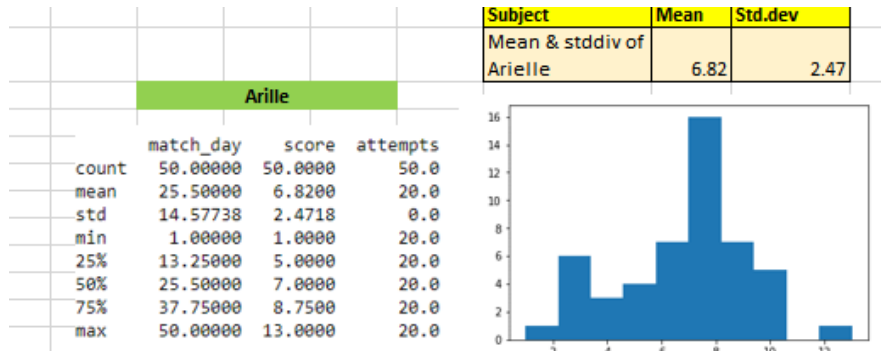
Right Hand	Score	Attempt
Arielle	380	1000
Boris	460	1000

8%

Left Hand	Score	Attempt
Arielle	240	1000
Boris	280	1000

4%

9) The analysis using Python pandas also confirms the same as below.



Final Verdict: It is clear that Boris have made most of the attempt in his non- dominant hand, hence he is little low in overall scores. However considering the sustainability and endurance,

Boris is a “Best pancake flipper” from this experiment.