CRICKET ANALYTICS





An analytical debate

Sachin vs Kohli – Process



 Developing idea of data to be used and shortlisting parameters

Getting the data

Pre-processing the data & Visualisations

Calculating the required parameters

Conclusion

Data to be used and short-listing parameters





Sachin Tendulkar 1989-2012 First ODI Century in 1994



Virat Kohli 2008-Present First ODI Century in 2009

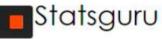
Parameters:

- Batting RPI/Avg
- Strike Rate
- Number of 100's
- Number of 50's
- Team contribution

Getting the data



Websites like:



Innings F Innin	gs F Ir	nnings F I	nnings № 1	nnings E Inr	nings N Inr	nings E Inc	nings E Inni	ings E I	nnings E Ir	nings N Oppositio	Ground	Innings (Country 50's	100's	Innings F In	nings C Inning	s E Inning:	Minnings!
ELewis	65	65	128	1	0	80	8	1	81.25	2 vIndia	Port of Sp	*****	West Indi	1	0 50-99			
NPoorar	42	42	69	1	0	52	4	- 1	80.76	2 vIndia	Port of S	*****	West Indi	0	0 0-49			
SO Hetm	18	18	31	1		20	2	0	90	2 vIndia	Port of St	*****	West Indi	0	0 0-49			
RL Chas	18	18	34	1	0	23	0	0	78.26	2 v India	Port of S	*****	West Indi	0	0 0-49			
SS Cottre	17	17	23	1	0	18	2	- 1	94.44	2 vIndia	Port of S	*****	West Indi	0	0 0-49			
JO Holde 13°		13	38	1	1	19	0	0	68.42	2 vIndia	Port of S	*****	West Indi	0	0 0-49			
CHGayle	11	11	49	1	0	24	1	0	45.83	2 vIndia	Port of S	*****	West Indi	0	0 0-49			
SDHope	5	5	14	1	0	10	0	0	50	2 v India	Port of S	*****	West Indi	0	0.0-49			
CR Brath	0	0	5	1	0	3	0	0	0	2 v India	Port of St	*****	West Indi	0	0 0-49			
KAJRoa	0	0	5	1	0	3	0	0	0	2 vIndia	Port of S	*****	West Indi	0	0 0-49			
O Thoma	0	0	4	1	0	1	0	0	0	2 vIndia	Port of S	*****	West Indi	0	0 0-49			
V Kohli	120	120	179	1	0	125	14	1	96	1 v Westin	Port of S	*****	India	0	1 100-149			
SSIver	71	71	101	1	0	68	5	1	104.41	1 v West In	Port of S	*****	India	1	0 50-99			
RRPant	20	20	27	1	0	35	2	0	57.14	1 v West In	Port of Se	*****	India	0	0 0-49			
RG Shan	18	18	75	1	0	34	2	0	52.94	1 v West In	Port of S	*****	India	0	0 0-49			
RAJadej 16°		16	24	1	1	16	1	0	100	1 v West In	Port of S	*****	India	0	0 0-49			
KM Jadh	16	16	27	1	0	14	2	0	114.28	1 v West In	Port of S	*****	India	0	0.0-43			
Mohamm 3"		3	11	1	1	5	0	0	60	1 v West in	Port of S	*****	India	0	0 0-49			
SDhawa	2	2	4	1	0	3	0	0	66.66	1 v West In	Port of S	*****	India	0	0 0-49			
BKumar	1	1	6	1	0	2	0	0	50	1 v West In	Port of S	*****	India	0	0 0-49			
Kuldeep DNB	-			0	0 -	-	-			1 v West In	Port of S	*****	India	0	0 -			
KK Ahme DNB	-			0	0 -	-	-			1 v West In	Port of S	*****	India	0	0 -			
CR Brathwaite										1 vindia	Port of S	*****	West Indies			10	1	0 53
RL Chase										1 v India	Port of S	*****	West Indies			10	1	1 37
SS Cottrell										1 v India	Port of Sp	*****	West Indies			10	1	0 49
JO Holder										1 v India	Port of Se	*****	West Indies			9	1	0 53
O Thomas										1 vindia	Port of S	*****	West Indies			4	1	0 32
KAJRoach													West Indies			7	1	0 54

Pre-processing the data



Levis	65	65	128	1	0	80	8		81.25	2 v India
NPoorar	42	42	69	1	0	52			80.76	2 v India
SO Hetm	18	18	31	1	0	20	2	- 0	90	2 v India
RL Chase	18	18	34	1	0	23			78.26	2 v India
SS Cottre	17	17	23	1	0	18	2		94.44	2 v India
JO Holde	13*	13	38	1	1	19	0		68.42	2 v India
CH Gayle	11	11	49	1	0	24	1		45.83	2 vIndia
SD Hope	5	5		1	0	10	0		50	2 v India
CR Brath	0	0	5 5	1	0	3			0	2 v India
KAJRoa	0	0	5	1	0	3	0		0	2 vIndia
O Thoma	0	0	4	1	0	1	0		0	2 v India
V Kohli	120	120	179	1	0	125			96	1 v West In
SS lyer	71	71	101	1	0	68		1	104.41	1 v West In
RR Pant	20	20	27	1	0	35			57.14	1 v West In
RG Shan	18	18	75	1	0	34	2		52.94	1 v West In
RA Jadej	16"	16	24	1	1	16	1	0	100	1 v West In
KM Jadh	16		27	1	0	14			114.28	1 v West In
Mohamm		3		1	1	5			60	1 v West In
SDhava	2			1	0	3			66.66	1 v West In
B Kumar	1	1	6	1	0	2	. 0		50	1 v Westin
Kuldeep	DNB	+	-	0	0 -		-	-	-	1 v West In
KK Ahme	DNB		-	0	0 -		-	4	2	1 v West In
CR Brath	vaite									1 v India
PL Chase										1 v India
SS Cottre	ā									1 v India
JO Holde	t									1 v India
OThoma	s									1 v India
KAJRoad	oh .									1 v India

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str_ma = &[l_odd( limings [[v]])

strong = &[l_odd( limings type [[v]]
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player	country	matches	runs	balls	not_out	average	50s	1005
V Kohli	India	216	10922	11636	0.17	60.68	51	
EJG Morga	England	179	6241	6576	0.14	40.53	38	
RG Sharma	India	172	7981	8838	0.13	53.21	38	
AD Mathe	Sri Lanka	168	5437	6492	0.27	44.57	37	
Mohamm	Pakistan	168	5740	7130	0.08	37.27	34	
MS Dhoni	India	161	5640	6574	0.3	50.36	39	
HM Amla	South Afri	157	7265	8152	0.07	49.76	33	
MJ Guptill	New Zeala	155	5888	6686	0.1	42.36	29	
TM Dilsha	Sri Lanka	155	6296	7234	0.09	44.65	31	
Mushfiqui	Banglades	151	5178	6226	0.16	40.77	33	
LRPL Taylo	New Zeala	145	6428	7692	0.18	54.02	39	
KS Willian	New Zeala	142	6132	7494	0.1	47.91	39	
WU Thara	Sri Lanka	140	4295	5502	0.11	34.64	24	
F du Pless	South Afri	136	5507	6215	0.15	47.47	35	
Tamim Iqt	Banglades	136	5028	6340	0.06	39.28	36	
JE Root	England	135	5856	6702	0.16	51.37	33	
KC Sangak	Sri Lanka	135	6356	7504	0.11	52.97	42	
JP Duminy	South Afri	132	3824	4467	0.22	37.13	21	
LD Chandi	Sri Lanka	132	3599	4855	0.16	32.42	22	
Mahmudu	Banglades	131	3431	4367	0.26	35.37	19	

Calculating the parameters



Absolute



Batting Runs per innings, SR, No of 100's, No of 50's, Team contribution

Relative

Normalised values

 Technique to change the values of numeric columns in the dataset to use a common scale

Conclusion: 6/6



This can be done by comparing normalised values for both:

Parameter	Sachin	Kohli	Winner
Runs per innings	1.94	2.03	Kohli
Strike Rate	1.22	1.12	Sachin
100's per match	0.15	0.18	Sachin
50's per match	0.57	0.55	Kohli
Team contribution	16.90%	17.61%	Kohli