

## Find "IMPACT" of a cricketer's innings

From a very young age I was passionate about cricket. Watching cricket is one of my hobbies. Being a cricket fan and data science enthusiast, I was always fond of stats of a player. As a cricket fan, I can watch and analyze a player's innings and how it helped the team in winning. I always felt that our existing metrics such as average, strikerate, total runs, no.of wickets can't exactly measure the impact of a player in winning games. Having a good average or strike rate is good, but it can't justify a player's impact. I want to quantify the impact. Let's consider a scenario of a hypothetical ODI match, where a batter 'X' scored 100\*(95) and batter 'Y' scored 70(40) in a run chase of 350. Who do you consider is the main man behind victory and how can you quantify their impact? Average suggests batter X played better and strike rate suggests batter 'Y' played better. But at the end we somehow feel both had the similar impact and it doesn't exactly show up in the stats. As impact depends on a lot of factors such as batting position, pitch condition, bowler's skill etc. Consider another scenario in which the Team chased 150 innings in an ODI match where batter 'A' scored 80(110) and in another ODI match Team scored 300 runs where batter 'B' scored 100(100). Now obviously B will have better numbers in terms of average and strike rate, but it is quite obvious that B had a better impact in making his team win, which does not get counted in stats. Measuring a player's performance in terms of average might not be the best metric. Batters' impact depends on a lot of features such as batting position, pitch condition, team score, which game they're playing(Worldcup, bilaterals etc), whom they're facing and how they're contributing to the team's win. To analyze a player's performance, I want to create a measure called 'IMPACT POINTS', which tries to capture all the features involved in a player's performance. This was my idea and I will try to make this one day.

