

# Cricket Analytica

*Coding Club IIT Guwahati*

## OVERVIEW

Data plays an important role in sports and broadcasting. Players and analysts spend hours and hours on watching videos, looking at charts and data while preparing for the matches. You must have seen the analyst of Kolkata Knight Riders putting up numbers on a cardboard to change or stick to a particular strategy. This is your chance to put on your ‘data hat’ and analyse data in Cricket Analytica!

## Description

You have been given ball by ball data of all the seasons of Indian Premier League(IPL) in the form of a json file. Your task is to pick three stories/incidents/happenings from the league and do data driven analysis of the why and how of the incidents in a quantitative manner. Make use of plots and charts, whenever and wherever possible. Try and validate or reject all your assumptions using the data.

Here are some sample stories for you.

- “Mahendra Singh Dhoni had the worst outing for a captain in the history of IPL, scoring just 114 runs in 16 matches, yet his team Chennai Super Kings ended up lifting the trophy. What might be the reasons for this?”
- “Mumbai Indians won the title in 2019 and 2020 but could not even qualify for the playoffs in 2021, but had essentially the same squad. What went wrong?”
- “Kuldeep Yadav was being projected as the next big spinner in 2018-19 but was not picked in the playing XI in even a single match by his franchise,

Kolkata Knight Riders. What factors played a role in this?”

- “Chennai Super Kings was the first team to get eliminated from IPL 2020, but lifted the trophy in 2021 with more or less the same squad. What were the things they did differently?”

We motivate you to choose stories on your own to do the analysis.

## Submission

You have to submit a pdf file consisting of the charts and analysis that you have performed on or before 31 October 2021 11:59 pm either as a reply to the mail sent to you for the problem statement or whatsapp the pdf file at +918847059808. It is mandatory to include the team name and the name of all the team members in the pdf.

## Evaluation and Prizes

Evaluation would be done on the basis of your choice of story, the depth of your analysis, use of plots and charts and your presentation. You can use any software or technology to perform analysis and make charts but copying from the Internet or other participants would lead to disqualification.

Cash prizes would be given to the top three entries.

1st position - Rs. 2500

2nd position - Rs. 1500

3rd position - Rs. 1000

Certificate of participation for all valid submissions!

For any queries, contact:

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