Dataset

IPL 2008 to 2022 All Match Dataset

Domain

Sports and Entertainment

Context

IPL is among the most famous cricket league with players coming from worldwide. What makes this series more competitive every year is the drama with every ball and hence this dataset is a complete dataset showing match information and also data for each delivery.

- 1. The file IPL_Matches_2008_2021.csv contains all details of the match: Venue of the match, Toss Decision, Match Winer, Man of the Match, Squads, etc.
- 2. The file IPL_Ball_by_Ball_2008_2021.csv contains ball by ball data of each and every match: Batsman on strike, Bowler, Extras, Runs, Wicket Ball, etc.

Attribute Information

IPL_Ball_by_Ball_2008_2022.csv

- 1. ID Match ID given by ESPNCricinfo
- 2. Innings Inning Number 1 1st Inning 2 2nd Inning
- 3. Overs Over Number 0-19
- 4. Ballnumber Ball Number
- 5. Batter Batsman on Strike
- 6. Bowler Bowler
- 7. Non-striker Non-Striker Batsman
- 8. Extra_type If the ball is an extra, this will indicate the extra type Possible Values: byes, legbyes, wides, noballs
- 9. Batsman_run Run Scored by the batsman for the ball
- 10. Extras run Extra runs for the ball
- 11. Total run Total Runs for the ball
- 12. Non_boundary This indicates that the 4 or 6 scored was not via an actual boundary, for example it was all run, or overthrows. 1 if overthrow
- 13. isWicketDelivery Is the ball a wicket delivery
- 14. Player_out Batsman getting out
- 15. Kind Type of wicket taking ball
- 16. Fielders involved Fielders if any involved in the wicket taking ball
- 17. BattingTeam Batting Team

IPL_Matches_2008_2022.csv

- 1. ID Match ID given by ESPNCricinfo
- 2. City City where the game was played
- 3. Date Date of the match
- 4. Season IPL Season
- 5. MatchNumber Match Number for that IPL Season. Also for Qualifiers and Finals, the match number would be Final, Qualifier 2, Qualifier
- 6. Team1 Team 1
- 7. Team2 Team 2
- 8. Venue Stadium
- 9. TossWinner Team winning the toss
- 10. TossDecision Toss decision: the toss winner either choosing field or bat
- 11. SuperOver Did the match had super over
- 12. WinningTeam Winner of the match
- 13. WonBy Won By runs or wicket
- 14. Margin Margin of win
- 15. Method Was there D/L method in the match
- 16. Player_of_Match Player of the match
- 17. Team1Players Team 1 Squad Array value
- 18. Team2Players Team 2 Squad Array value
- 19. Umpire 1 Umpire 1
- 20. Umpire2 Umpire 2

Task

Your data-wrangling step must contain basic error checks, missing values checks and their treatment with proper reasoning, outlier checks, and duplicate values checks. You are allowed to explode columns and merge datasets.

Non-Visual Data Analytics: Do both uni-variate and bi-variate analysis and furnish **at least** 5 interesting insights.

And lastly, your analysis must answer the following sample questions:

- 1. From overs 0-19, which over has the most runs scored in, on average?
- 2. Top 10 umpires, who were part of the most matches
- 3. Which team has the highest probability of winning a match given that they had won the toss?
- 4. Top 10 most successful bowlers in terms of number of wickets taken
- 5. Calculate for each team the number of playoff matches played.
- 6. On which venue, the team batting second has the most advantage?
- 7. Which batsman in the history of IPL has been caught out the most?
- 8. Which bowler has taken the wicket of the batsman in que no. 7?