

IPL 2023 Data Analysis: Unveiling Key Insights with PandasAI

Explore IPL 2023 through data-driven analysis with PandasAI. Discover trends and insights for teams, players, and fans to understand the season better.



1. Data Acquisition and Cleaning

Data Sources

Official IPL website, ESPNcricinfo, Kaggle datasets provide comprehensive data.

Cleaning Steps

- Handle missing values by imputation or removal
- Convert data types appropriately
- Validate and correct data for consistency



2. Feature Selection and Engineering

Selected Features

- Runs, wickets, strike rate, economy, catches
- Toss results, venue, team performance metrics

Engineered Features

- Run rate (runs per over)
- Win percentage of teams
- Player impact score combining key stats

3. Summary Statistics and Descriptive Analysis

Key Metrics

Average scores, highest run-scorers, top wicket-takers

Team Success

Win percentages and toss impact on match results

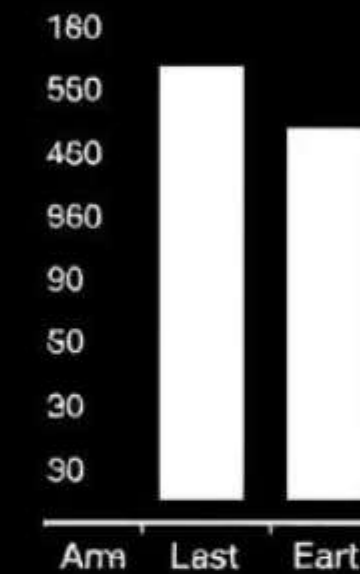
PandasAI Functions

Describe(), groupby(), agg() for detailed data summaries



IPL Cricket Stats

WES YOUR SCORES



88608

99609

89001

159200

54 2017

12. 990900

225001

23. 235003

120600

26. 230999

390003

23. 199923

725001

34 150005

230000

TI-PRVINNERS

		FMITAL SCORETS	>>
1	10	Chemed Filiclis:	1
2	1	Mardille Srdy	3
3	3	Sired Siremjny	3
4	3	Hirieted ahrayay	3
5	12	Usseft donagy	11
6	19	Riothie Molrage	17
11	13	Shaaten Jeepory	20
11	20	The Foturs	4
12	14	2000 Back Pday:	7
8	12	Mistliches Lany	3
11	12	Rilliarial langes	3
12	13	Pevent Cappy	3

4. Identifying Patterns and Trends

Team Insights

- Win/loss patterns through the season
- Home vs. away performance comparison

Player Trends

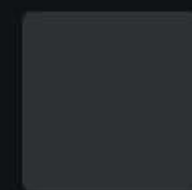
- Batsmen and bowlers averages over time
- Performance consistency under pressure

5. Anomaly Detection and Outlier Analysis



Outlier Types

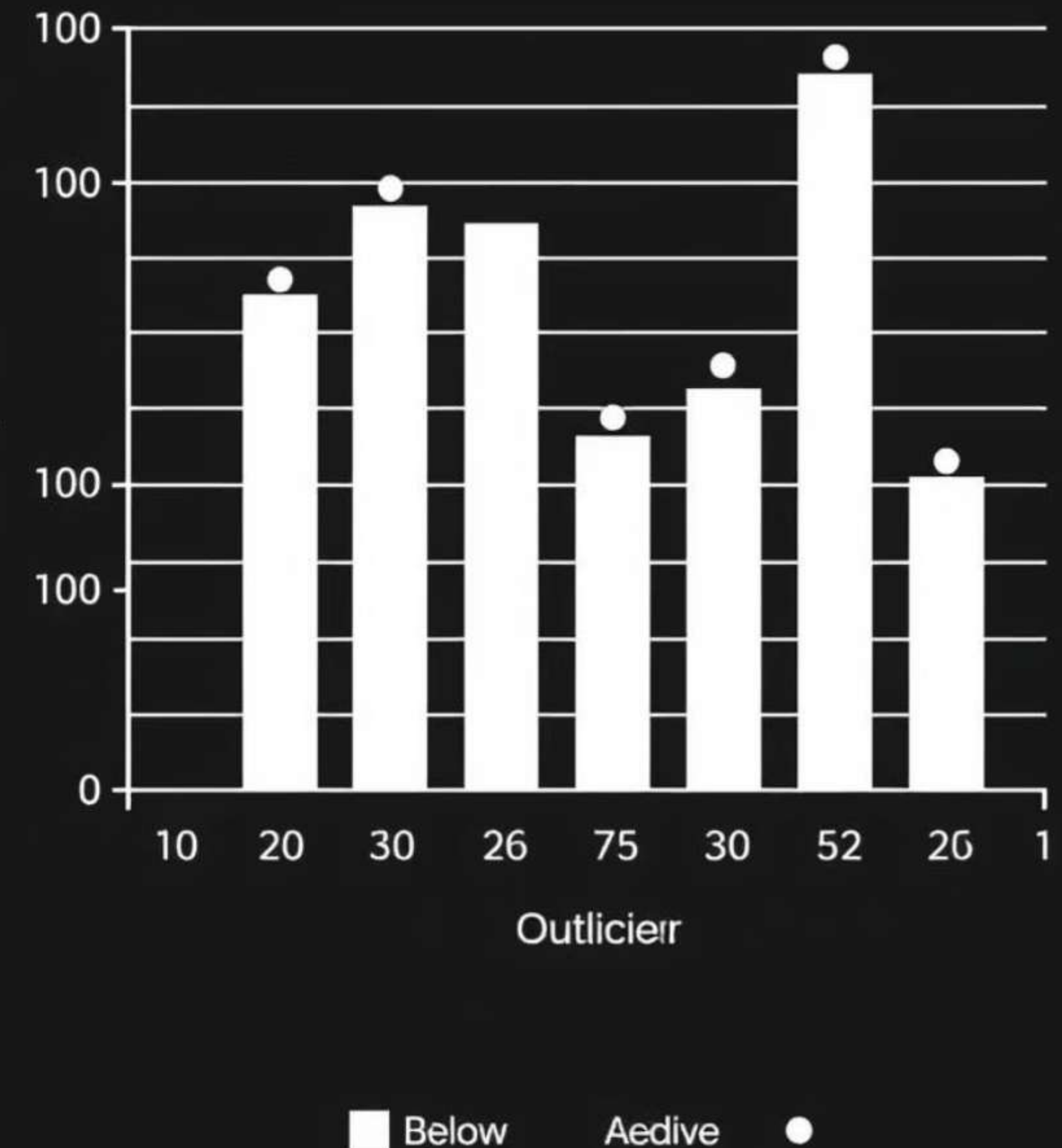
Exceptional batting scores
and bowling spells



Unexpected Results

Matches with unusual run
differences or surprises

OUktyMiethes Run Difference



6. Initial Visualizations and Key Findings

Visual Types

- Bar charts for top players
- Line plots for team trends
- Scatter and histogram plots for distributions

Key Insights

- Top teams and standout players
- Effects of toss and venue on outcomes
- Season anomalies and surprises