

IPL Data Analysis Project Report (2008 - 2024)

This report summarizes the insights extracted from Indian Premier League (IPL) datasets spanning from 2008 to 2024. The datasets include ball-by-ball information, player performances, and season-specific data for IPL 2024.

Datasets Used

1. IPL.csv - Complete ball-by-ball dataset from 2008-2023.
2. players_performace_2008_2023.csv - Summary of batting and bowling performances.
3. IPL24_All_Matches_Dataset.xlsx - Ball-by-ball match data for IPL 2024.

Key Insights

- Top performers in batting and bowling across seasons.
- Scoring trends and run rate progression throughout the years.
- Powerplay performance comparison among teams.
- Correlation between toss decisions and match results.
- Match win/loss trends and momentum analysis.
- IPL 2024 specific insights (match totals, venues, standout players).

Visuals & Graphs (Samples)

(Visuals and plots generated using Matplotlib & Seaborn in the Jupyter Notebook are included in the full notebook. Please refer to the GitHub repository.)

Technologies Used

- Python (Pandas, NumPy, Matplotlib, Seaborn)
- Jupyter Notebook
- Excel (for dataset preprocessing)

Conclusion

This project provided a holistic view of IPL performance trends and player statistics using real-world sports data. The analysis can be extended to build predictive models or dashboards in future phases.