

IPL Dataset Analysis (2015-2024)

Project Overview

This project focuses on the analysis of salaries of prominent IPL (Indian Premier League) players between the years 2015 to 2024. The dataset includes salary information for a set of players and provides insights into salary trends, comparisons, and overall performance in relation to their earnings over the given period.

Players Analyzed

The following players' salary data from 2015-2024 are analyzed:

- Sachin (Sachin_Salary)
- Rahul (Rahul_Salary)
- Smith (Smith_Salary)
- Sami (Sami_Salary)
- Pollard (Pollard_Salary)
- Morris (Morris_Salary)
- Samson (Samson_Salary)
- Dhoni (Dhoni_Salary)
- Kohli (Kohli_Salary)
- SKY (Sky_Salary)

Key Objectives

1. Analyze the salary trends of IPL players from 2015 to 2024.
2. Perform comparative analysis to understand salary growth patterns.
3. Visualize the data using graphs to represent player salary trends, highlighting peaks, dips, and overall growth.

Libraries Used

- **Pandas:** For data manipulation and analysis, especially handling salary datasets.
- **NumPy:** For numerical computations and handling multi-dimensional arrays.
- **Matplotlib:** For creating visualizations and plotting salary trends for the players.

Features

- **Data Cleaning & Preparation:** Used Pandas to handle and clean the raw salary data for each player.
- **Salary Trend Graphs:** Matplotlib is utilized to plot the yearly salary trends of each player, helping to visualize patterns, peaks, and changes.
- **Comparative Analysis:** The project performs a comparison of player salaries over time to identify key insights, such as the highest-paid players, salary growth rate, etc.

Visualizations

The project includes the following visualizations:

- Individual player salary trends (2015-2024).
- Comparative salary trends among players.
- Year-wise bar charts and line graphs representing salary growth.