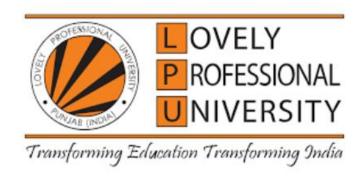
<Introduction Of Data Management> PROJECT REPORT

(Project Semester January-May 2024)



IPL Data Analysis

Submitted by

Akshat Sharma

Registration No: 12218629

Programme and Section: CSE(K22QY)

Course Code: INT217

Under the Guidance of

Savleen Kaur (18306)

Discipline of CSE/IT

Lovely School of Computer Science And Engineering

Lovely Professional University, Phagwara

Table of Content

No.	Topic	Page No.
1.	Introduction	1
2.	Objectives/Scope of the Analysis	1
3.	Source of Dataset	1
4.	ETL Process	1
5.	Analysis on dataset	1-2
6.	List of analysis with results	2
7.	Dashboard	3-5
8.	References	5
9.	Certificate	6
10.	Declaration	7

Introduction:

The Indian Premier League (IPL) has emerged as one of the most popular cricket leagues globally, captivating millions of fans with its thrilling matches and star-studded line-ups. In this report, we delve into the world of IPL data analysis, exploring various facets of the league's performance, player statistics, and team dynamics.

Objectives/Scope of the Analysis:

The primary objectives of this analysis are to:

- Extract insights from IPL data.
- Identify trends and patterns in player and team performance.
- Analyze factors influencing match outcomes.

Source of Dataset:

The dataset used for this analysis was sourced from [provide source details], encompassing comprehensive data on IPL matches, players, teams, and match statistics.

ETL Process:

The Extract, Transform, Load (ETL) process involved in this analysis included data extraction from the source, data cleansing to ensure accuracy and consistency, and data transformation to prepare it for analysis. Finally, the data was loaded into the analytical environment for further processing.

Analysis on Dataset:

Introduction:

Each analysis focuses on a specific aspect of IPL data, aiming to uncover valuable insights and trends.

General Description:

A brief overview of the analysis methodology and approach adopted.

Specific Requirements, Functions, and Formulas:

Detailed explanation of the analytical techniques, functions, and formulas utilized in the analysis.

Analysis Results:

Presentation of key findings and insights derived from the analysis.

Visualization:

Visual representations such as charts, graphs, and diagrams to illustrate the analysis results effectively.

List of Analysis with Results:

1. Team Performance Analysis

- Analysis of win-loss records, run rates, and batting/bowling performances.
- Utilization of statistical measures such as mean, median, and standard deviation.
- Visualization using bar charts and pie graphs.

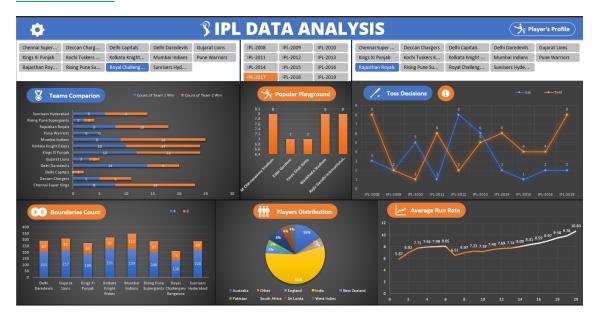
2. Player Performance Analysis

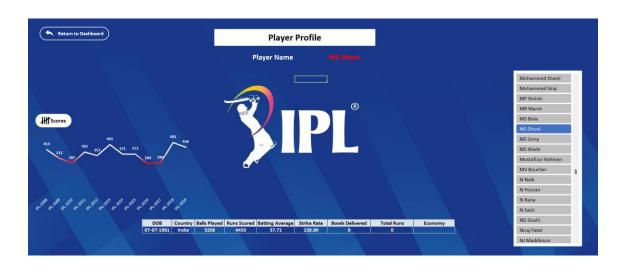
- Examination of player statistics including runs scored, wickets taken, and batting averages.
- Calculation of performance indices like strike rate and economy rate.
- Visualization through scatter plots and histograms.

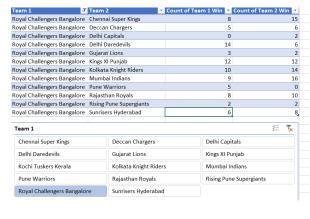
3. Match Outcome Prediction

- Predictive modeling using historical match data.
- Application of machine learning algorithms such as logistic regression or decision trees.
- Evaluation of model accuracy and predictive performance.

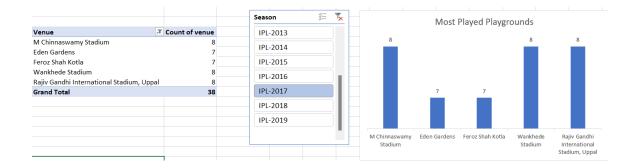
Dashboard:

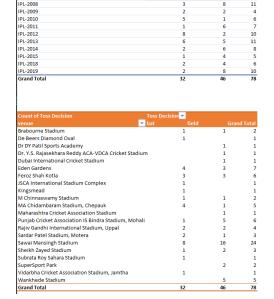






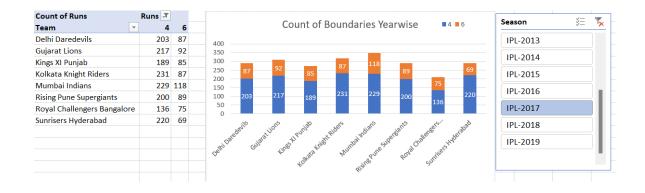


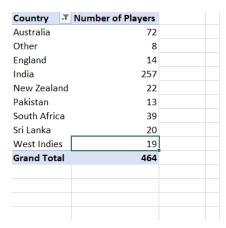


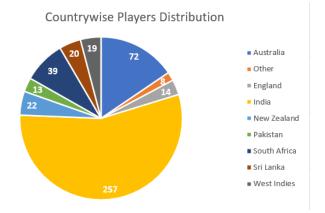


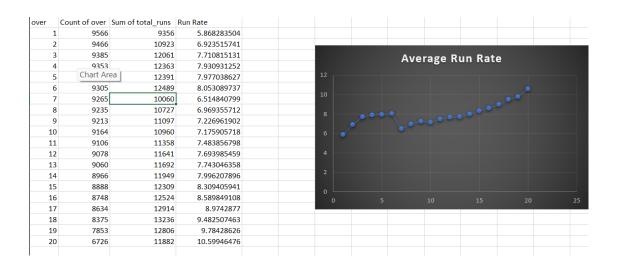
Grand Total













References:

Some of the codes where referred from the class activity and made changes accordingly to fit the data analysis of my project.

CERTIFICATE

This is to certify that **Akshat Sharma** bearing Registration no. **12218629** has completed **INT232** project titled, "**IPL Data Analysis**" under my guidance and supervision. To the best of my knowledge, the present work is the result of his original development, effort and study.

Signature and Name of the Supervisor
Designation of the Supervisor
School of
Lovely Professional University
Phagwara, Punjab.
Date:

DECLARATION

I **Akshat Sharma** student of **Data Science** under CSE/IT Discipline at, Lovely Professional University, Punjab, hereby declare that all the information furnished in this project report is based on my own intensive work and is genuine.

Date: 18-04-2024 **Signature**

Name of the student:

Akshat Sharma

Registration No:

12218629