

Issues with previous project proposal: The dataset for job market analysis contains a significant number of redundant columns and lacks comprehensive attributes such as salary and skills, which are important for making in depth analysis. Multiple datasets which I found also had only one or two relevant columns like job description, job portals etc. Due to these issues, I would like to propose my new topic of IPL Cricket Analysis.

Title: IPL Cricket Analysis- Exploring Cricket Data for Insights into Player Skills, Team Dynamics, and Match Trends

Aim: The aim of this project is to perform comprehensive analysis on cricket data using SQL, Power BI for visualisation, and Python for advanced analysis. The project will involve building a data pipeline, creating an optimised database schema, conducting data transformations, and generating meaningful insights from the cricket dataset. The analysis will focus on various aspects such as player performance, team performance, match statistics, and more.

Literature Review: Cricket analysis, particularly in the context of the IPL, has gained significant attention from researchers and enthusiasts alike. Several studies have focused on analysing player performance, team strategies, match outcomes, and the impact of various factors on the game. Existing literature provides valuable insights into the dynamics of IPL cricket and serves as a foundation for this project.

Objective:

The objective of this project is to gain a deep understanding of the IPL cricket dataset and extract meaningful insights. By analysing player statistics, match outcomes, team performance, and other relevant factors, we aim to uncover patterns, correlations, and trends that can contribute to a comprehensive understanding of IPL cricket.

Potential Research Questions:

How does the performance of teams vary based on the venue (home or away)?
What is the distribution of player ages in the dataset, and how does it correlate with performance?
How does a particular batsman perform against a particular type of bowler (Right-arm medium, Legbreak googly)?
Is there a correlation between the toss decision (batting or bowling) and the match outcome?
Which player has won the most Man of the Series awards in the dataset?
What is the distribution of match outcomes (win, loss, tie) in the dataset?
Which team has won the most matches in the dataset?
What is the distribution of different types of dismissals in the dataset?
Is there a correlation between a player's performance and the number of matches they have played?

By addressing these research questions, we aim to provide valuable insights into IPL cricket and enhance our understanding of player performance, team strategies, and match outcomes.