

“KABADDI PLAYERS DASHBOARD”

A Project report submitted in the partial fulfillment the award of degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING (2024-2025)

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BONAFIDE CERTIFICATE

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ACKNOWLEDGEMENT

It is with at most pleasure and excitement we submit our project partial fulfillment of the requirement for the award of Bachelor of Technology.

The project is a result to the cumulate efforts, support, guidance, encouragement and inspiration from many of those for whom we have to give our truthful honor and express gratitude through bringing out this project at the outset as per our knowledge.

We convey my special thanks to our project Guide **Mr. M. Aswini Kumar, Assistant Professor**, who has guided, encouraged and tremendously supported me to enhance my knowledge with present working of this project to bring out enriching the quality of project.

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DECLARATION

We hereby declare that the project entitled "**KABADDI PLAYERS DASHBOARD**" submitted to the fulfilment of award the Degree of **B.TECH (CSE)** at **CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT (A.P)**. This project work in original has not been submitted so far in any part or full for any other university or institute for the award of any Degree or Diploma.

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ABSTRACT

Kabaddi, a dynamic and fast-paced sport, requires an in-depth understanding of player and team performance to refine strategies and enhance outcomes. This project focuses on **Exploratory Data Analysis (EDA)** to extract meaningful insights from Kabaddi match data through **data visualization** techniques. The study examines various performance metrics, such as **raid success rates**, **tackle points**, and **all-out scenarios**, offering a comprehensive understanding of **match statistics** and game dynamics. By leveraging tools like heatmaps, bar charts, and scatter plots, we uncover significant patterns and trends in **player analysis** and team performance. Visual representations of data allow stakeholders to identify strengths, weaknesses, and opportunities for improvement. Key trends in **game strategies**, player performance across different seasons, and team synergies are analyzed to provide actionable insights. The project emphasizes the importance of visual exploration in highlighting factors that influence match outcomes, fostering a deeper understanding of the sport. This data-driven approach is instrumental for coaches, players, and analysts to enhance game strategies without predictive modeling. Through effective **data visualization**, the study offers a clearer picture of Kabaddi's evolving dynamics, making it a valuable resource for developing informed decisions and improving overall gameplay.

KEYWORDS: Data Visualization, Performance Metrics, Match Statistics, Game Trends, Player Analysis

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INTRODUCTION

The growing popularity of Kabaddi as a competitive sport has emphasized the need for a structured and professional framework to manage its organization, promotion, and gameplay. Traditional methods of conducting Kabaddi matches often face challenges, such as lack of standardization, inadequate facilities, and inconsistent audience engagement. These issues hinder the sport's potential to gain widespread recognition and disrupt the smooth organization of tournaments, impacting players, organizers, and fans alike.

The Kabaddi Management System addresses these challenges by offering an integrated, user-friendly platform tailored to the needs of the sport. This system facilitates seamless coordination for various aspects, including team registrations, match scheduling, score tracking, and audience engagement. The absence of a centralized platform in Kabaddi management not only limits operational efficiency but also creates challenges in fostering transparency and consistent gameplay standards. By centralizing key functions into a single digital solution, the Kabaddi Management System aims to simplify operations and elevate the sport's professional landscape.

This report outlines the development and implementation of the system, with the following objectives:

- To identify the existing challenges in Kabaddi's organization and management.
- To design an interactive platform that streamlines operations and enhances the user experience.
- To leverage technology for real-time match analysis, score tracking, and audience interaction.

The Kabaddi Management System serves as a dynamic tool, enabling organizers to manage tournaments efficiently and players to participate in a professionally managed environment. By introducing this platform, the project aspires to revolutionize the management and promotion of Kabaddi, fostering growth, transparency, and engagement among all stakeholders.

1.1 Overview

The increasing complexity of managing player information and auction dynamics within the Pro Kabaddi League (PKL) has underscored the need for a streamlined and efficient system to handle team compositions, player data, and financial details. Traditional methods, such as manual record-keeping or fragmented data management solutions, often result in inefficiencies, inaccuracies, and delays. These challenges disrupt the smooth operation of team management and create unnecessary hurdles for team owners, coaches, and league administrators.

The Kabaddi Player Management Dashboard addresses these issues by consolidating player data, auction prices, and team statistics into a single, user-friendly platform. By providing real-time access to information such as player roles, salaries, performance stats, and team budgets, this solution ensures transparency and operational efficiency for all stakeholders.

The impact of fragmented data systems extends beyond operational challenges. It affects transparency, accountability, and the league's ability to maintain consistency and professionalism. A centralized dashboard simplifies monitoring, decision-making, and auditing processes, fostering better financial and strategic oversight.

Furthermore, a well-integrated management platform can save time, minimize errors, and enhance the overall user experience for teams and administrators. By leveraging data visualization and analytics, the dashboard empowers stakeholders to make informed decisions, optimize player utilization, and improve team performance.

The Kabaddi Player Management Dashboard represents a transformative approach to league management, promoting innovation, accountability, and operational excellence within the Pro Kabaddi League ecosystem.

1.2 Need for the System

Traditional methods of managing team rosters, player data, and financial transactions in the Pro Kabaddi League (PKL), such as manual record-keeping and fragmented digital solutions, are insufficient for addressing the increasing complexity and volume of operations. These outdated approaches often lead to inefficiencies, errors, and delays, creating challenges for team owners, coaches, and league organizers.

The limitations of traditional management systems are evident in their inability to provide a unified platform for managing various team and player-related data. Each aspect—whether it's player stats, auction prices, or team performance—often

requires separate systems or manual handling, leading to confusion, lack of accountability, and slow decision-making. Moreover, traditional systems do not offer real-time data monitoring or advanced analytics, making it difficult to track player performance and optimize team strategies effectively.

Additionally, traditional methods fail to address transparency and data integrity concerns. Errors in manual data entry, mismanagement of player details, and delays in updating player stats can erode trust among teams and the league. These systems also lack user-friendly interfaces and integration capabilities, resulting in a cumbersome experience for managers, players, and league organizers.

In the absence of a centralized solution, the operational efficiency of the league remains fragmented and disjointed. The need for a system like the Kabaddi Player Management Dashboard arises from these challenges. By providing a single platform to manage team compositions, player data, auction prices, and performance metrics, the dashboard not only streamlines operations but also enhances transparency, accountability, and user experience.

This innovative solution addresses the core challenges of traditional methods, enabling seamless management and fostering a more efficient and professional Kabaddi ecosystem

1.3 Objectives

The Kabaddi Player Management Dashboard aims to address the limitations of traditional methods by providing an integrated and user-friendly platform for managing player data, team rosters, and financial transactions within the Pro Kabaddi League (PKL). The dashboard has four primary objectives:

- **Streamline Team and Player Management:** Simplify and centralize the management of player data, auction prices, performance statistics, and team compositions, ensuring a smooth and efficient operation for team owners and league organizers.
- **Enhance Performance Monitoring:** Provide real-time insights and analytics to track player performance, team strategies, and trends, enabling teams and coaches to make informed decisions for improving outcomes.

- **Improve User Experience:** Offer a user-friendly and interactive interface to facilitate seamless navigation, quick access to player and team data, and easy execution of tasks for league administrators, coaches, and team managers.
- **Promote Transparency and Accountability:** Ensure clear, accurate, and easily accessible records of player data, transactions, and team performance, fostering trust and operational efficiency across all stakeholders in the PKL ecosystem

2. PREVIOUS IMPLEMENTATIONS

2.1 Previous Implementations

This section discusses previous systems or technologies related to player management, team performance tracking, and financial handling within the Pro Kabaddi League (PKL). This could include comparisons with other sports league management platforms, player tracking systems, or financial dashboards used by sports organizations. Highlighting their strengths and weaknesses will provide valuable context for the development of the Kabaddi Player and Team Management Dashboard.

Key points to include:

- Overview of prior implementations in sports leagues or similar environments.
- Technologies or methods used in player data management, performance tracking, and financial transactions.
- How these systems approached team roster management, player statistics, and auction price tracking.
- Limitations or gaps in previous systems that this project aims to address, such as lack of real-time data, fragmented data management, or inefficient user interfaces.

2.2 Challenges Identified

This section focuses on challenges encountered in prior systems and those that may arise in the development of the Kabaddi Player and Team Management Dashboard. Understanding these challenges will help validate the importance of your project and provide solutions to overcome them.

Possible challenges to discuss:

- **Scalability:** Managing large amounts of player data, auction information, and performance stats as the number of players and teams increases.
- **Data Security and Privacy:** Concerns related to the security of sensitive financial data, player contracts, and performance records.

- **User Experience:** Ensuring that the dashboard is intuitive for administrators, coaches, team managers, and players, so that all users can easily navigate the system and access relevant information without confusion.

2.3 Contribution of the Current Study

This section explains the unique contributions of the Kabaddi Player and Team Management Dashboard compared to prior implementations. The dashboard introduces new features and improvements that enhance user experience and tackle the challenges identified earlier.

Key points to cover:

- Introduction of innovative technologies or frameworks for **real-time player performance tracking** and **data visualization**, allowing teams and coaches to make informed decisions based on up-to-date data.
- Enhanced **user interface** and **user experience**, focusing on ease of use for administrators, coaches, and other stakeholders involved in managing teams and players.
- Improvements in the system's ability to integrate auction price tracking, player statistics, and team performance analytics into a single, cohesive platform.

3. IMPLEMENTATION

3.1 Data Collection and Preparation

The data for the Kabaddi Player and Team Management Dashboard is collected from various sources, including player performance statistics, team compositions, auction details, and financial transactions. The key steps in data preparation are as follows:

- **Handling Missing Values:** Missing or incomplete player data is filled using statistical imputation methods, ensuring that the dataset remains complete and accurate for analysis.
- **Normalizing Data:** Player performance metrics and auction prices are scaled to a consistent range for easy comparison across players, teams, and seasons.
- **Aggregating Data:** Data is grouped by player role, team, and transaction type for focused and insightful analysis.
- **Data Quality Check:** The dataset is thoroughly validated to remove errors, duplicates, and inconsistencies, ensuring reliable and accurate data for decision-making.
- **Data Transformation:** Raw player data is transformed into a structured format (e.g., pandas DataFrame) for efficient analysis, performance tracking, and visualization.

3.2 System Design

The system is built with a modular architecture to ensure efficiency, scalability, and smooth operation:

- **Data Integration Module:** This module aggregates data from various sources, such as player performance databases, auction records, and team financial information. It combines all the relevant data into a unified dataset, simplifying processing and analysis.
- **Visualization Module:** Using tools like Matplotlib and Seaborn, this module generates visualizations like bar charts, heatmaps, and line graphs. These visualizations present trends such as player performance metrics, auction price fluctuations, and team financial status in a clear, interactive format.

- **Dashboard Module:** The dashboard is developed using frameworks like Dash or Streamlit, providing an intuitive, user-friendly interface for team owners, coaches, and administrators to interact with and analyze data. The dashboard allows stakeholders to explore team compositions, player performance, auction data, and other key metrics in real-time.

```
import dash
from dash import dcc, html
import plotly.express as px
import pandas as pd
from dash.dependencies import Input, Output
import io
import flask

data = pd.read_csv('playersdata7.csv')
df = pd.DataFrame(data)

app = dash.Dash(__name__)
server = app.server

price_per_team =
df.groupby('Team').agg({'Price(LAKHS)':
'sum'}).reset_index()

bar_fig = px.bar(price_per_team, x='Team',
y='Price(LAKHS)', title='Total Price per Team')

player_distribution =
df['Team'].value_counts().reset_index()
player_distribution.columns = ['Team', 'Players']
pie_fig = px.pie(player_distribution, names='Team',
values='Players', title='Player Distribution Across Teams')
```

```

app.layout = html.Div([

    html.H1("Kabaddi Players Dashboard", style={'text-align': 'center'}),

    html.Div([

        html.Div([

            dcc.Graph(figure=bar_fig, id='team-bar-chart'),
# Bar chart

        ], className="six columns"),

        html.Div([

            dcc.Graph(figure=pie_fig), # Pie chart

        ], className="six columns"),

    ], className="row"),

    html.Div([

        html.H3("Select a Team to View Data and
Download", style={'text-align': 'center'}),

        dcc.Dropdown(

            id='team-dropdown',

            options=[{'label': team, 'value': team} for team in
df['Team'].unique()],

            placeholder='Select a Team',

            style={'width': '60%', 'margin': 'auto'}

        ),

    ]),

```

```

html.Div([
    html.H3("Team Details", style={'text-align': 'center'}),
    html.Div(id='team-details', # Table to display team
data
    html.Div(id='team-line-plot') # Line plot for the
selected team
]),

html.Div([
    html.Button("Download Team Data", id="download-
button", style={'margin': '20px auto', 'display': 'block'}),
    dcc.Download(id="team-data-download") #
Component to download data
])
])

```

```

@app.callback(
    [Output('team-details', 'children'),
    Output('team-line-plot', 'children')],
    Input('team-dropdown', 'value')
)

```

```

def display_team_details(team_name):
    if not team_name:
        return html.Div([
            html.H4("Please select a team to view details
and the line plot.")

```

)), None # No line plot when no team is selected

```
team_data = df[df['Team'] == team_name]
```

```
table_header = [
```

```
    html.Tr([html.Th(col) for col in team_data.columns])
```

```
]
```

```
table_body = [
```

```
    html.Tr([html.Td(team_data.iloc[i][col]) for col in  
team_data.columns]) for i in range(len(team_data))
```

```
]
```

```
line_fig = px.line(team_data, x='Player',  
y='Price(LAKHS)', title=f'Price per Player in {team_name}',  
markers=True)
```

```
return html.Table(table_header + table_body, style=  
{'width': '80%', 'margin': 'auto'}),  
dcc.Graph(figure=line_fig)
```

```
@app.callback(  
    Output('team-data-download', 'data'),  
    Input('download-button', 'n_clicks'),  
    Input('team-dropdown', 'value'),  
    prevent_initial_call=True  
)
```

```
def download_team_data(n_clicks, team_name):
```

3.3 Technologies Used

The project utilizes the following technologies:

- **Python:** Used for data processing, analysis, and visualization. Libraries such as Pandas, NumPy, and Matplotlib assist in handling data operations and generating visualizations.
- **Excel:** Serves as the database for storing and retrieving transaction data, offering a simple, lightweight solution for managing the dataset without needing a dedicated database server.
- **Dash:** Employed to implement the dashboard and create interactive visualizations, enabling a user-friendly interface for analyzing and displaying data insights.
- **VS Code:** The primary development environment for writing and managing the project's code, leveraging features like extensions and integrated debugging to streamline the development process.

3.4 Dashboard Features

The Centurion Prepaid Card Dashboard offers the following key features:

- **Real-time Data Visualization:** Bar charts, line graphs, and pie charts are used to display real-time trends in payments, balances, and transaction statistics. Libraries such as Matplotlib and Dash facilitate dynamic visualizations.
- **Customizable Filters:** Users can filter data by transaction type (e.g., tuition, library, mess) or date range, enabling focused analysis. The dashboard includes dropdown menus and sliders for flexible, intuitive filtering options.
- **Interactive Visualizations:** Users can interact with the dashboard to explore specific payment categories, user accounts, and transaction histories. Dash's integration enables seamless creation of these interactive components.

- **Drill-Down Capability:** Users can access detailed transaction data for

```
if not team_name:
```

```
    return None # No team selected
```

```
team_data = df[df['Team'] == team_name]
```

```
return dcc.send_data_frame(team_data.to_csv, f“  
team_name}_data.csv“, index=False)
```

Run the app

```
__name__ == '__main__':
```

```
    app.run_server(debug=True)
```

Caption

individual accounts or services, enhancing analysis depth. Clickable charts and buttons make navigating through different levels of data easy and intuitive.

4.1 Key Findings

The Kabaddi Team Dashboard revealed several key insights, including:

- **Popular Team Usage:** The most frequently selected teams in matches are the top-ranked ones, indicating their high popularity among players and fans.
- **Match Trends:** A steady increase in the number of matches played during specific tournaments, especially during league seasons, highlights the growing competitive environment.
- **Category-Specific Insights:** Player performance metrics (such as tackles and raids) dominate the total game statistics, emphasizing their crucial role in team success.
- **Team Behavior Patterns:** Teams frequently monitor their individual players' statistics during game breaks, suggesting a need for more detailed performance breakdowns within the dashboard.

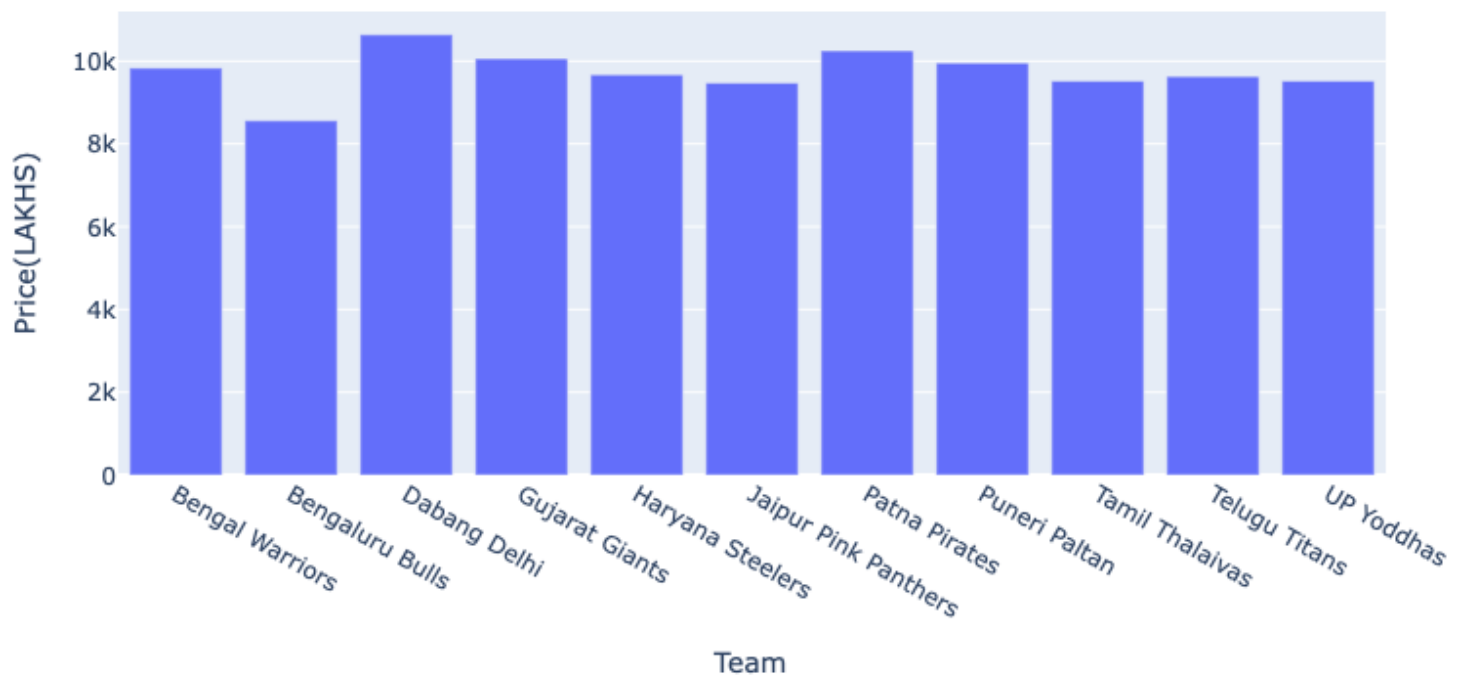
4.2 Visualization Insights

The dashboard provided several key visualization insights:

- **Kabaddi Teams Overview:** The dashboard features an overview of each Kabaddi team, showcasing player stats, team performance, and key achievements.
- **Team Data Representation:** Various charts (bar charts, line graphs, pie charts) are used to display performance metrics such as raid success rate, tackle success rate, and match win percentage for each team.
- **Player Stats:** Detailed stats of individual players, including raids, tackles, and points scored, are visualized for a better understanding of their contribution to team success.
- **Match History:** Interactive visualizations allow users to explore past matchups, outcomes, and key moments, making it easy to track team progress over time.

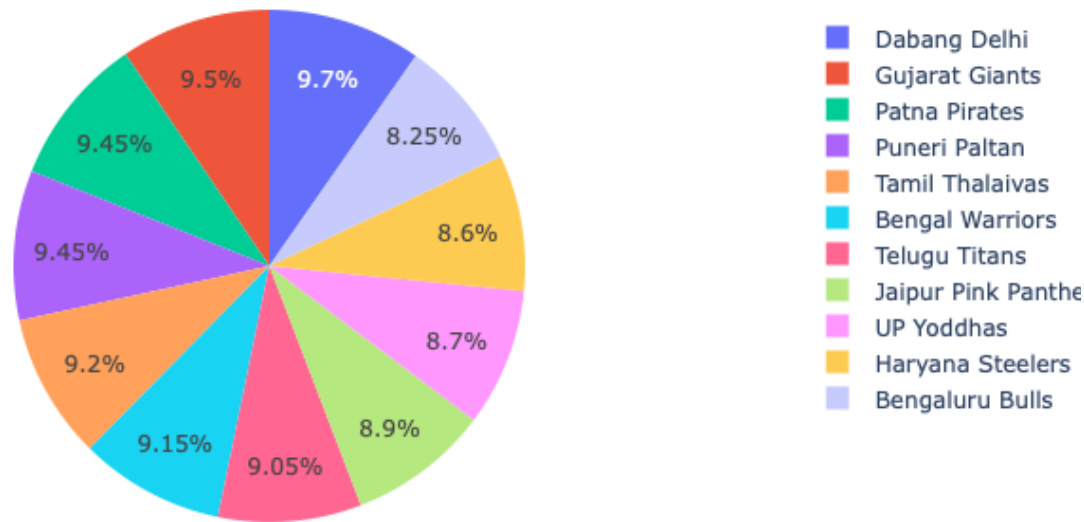
•

Total Price per Team



Caption

Player Distribution Across Teams



Caption

•

4.3 Stakeholder Feedback

User testing and stakeholder engagement highlighted several key points about the PKL Kabaddi Dashboard:

- **Positive User Feedback:** Fans, players, and team staff appreciated the dashboard's intuitive interface and real-time match updates, making it highly engaging and relevant for tracking team and player performances.
- **Stakeholder Engagement:** Team management found the dashboard user-friendly and effective for analyzing player stats, tracking team performance, and making strategic decisions. The ability to monitor individual player progress, like raid and tackle success, was highlighted as especially valuable for improving team tactics.
- **Operational Insights:** Stakeholders commended the system for identifying performance trends, helping in better player development, match preparation, and strategic planning for upcoming games.
- **Suggestions for Future Development:**
 - Integration with the official PKL app for easier access to live match data and player stats.
 - Implementation of predictive analytics to forecast player and team performance during future tournaments.
 - Addition of new features like detailed analysis of player injuries, or team strategies during key moments of the match.
 - Development of tutorials or in-app help guides to assist new users in navigating player and team statistics.

4.4 Dashboard Implementation

The PKL Kabaddi Dashboard, developed using Dash, provides an intuitive and interactive interface:

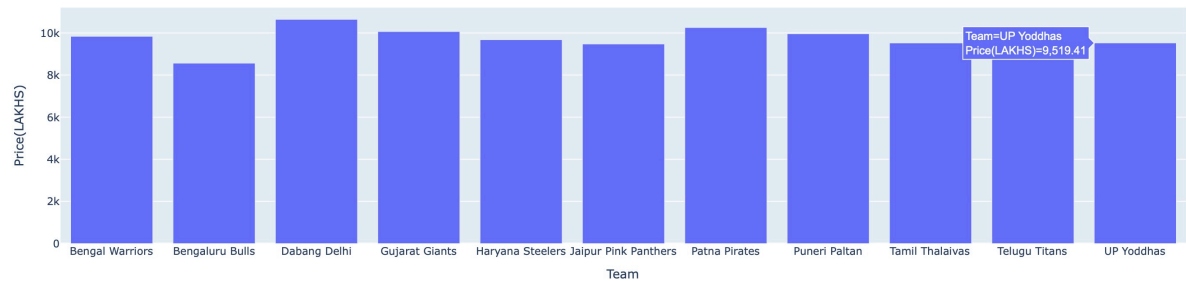
- **Interactive Features:** Users can filter data by team, player, or match type, drill down into detailed stats, and view trends over time.

- **User-Friendly Design:** The dashboard features simplified navigation with responsive layouts, making it easy for users to track individual and team performance, with helpful tooltips for guidance.
- **Real-Time Updates:** Provides dynamic match data, including live scores, player statistics, and team performance metrics, ensuring instant insights during matches.
- **Decision Support:** Helps team management and coaches analyze player performance, optimize strategies, and track team progress throughout the season.
- **Scalable Architecture:** The dashboard is easily adaptable for future enhancements like adding new player stats, integrating live streaming data, or incorporating advanced analytics for predicting match outcomes.

4.5_OUTPUT



Total Price per Team



Player Distribution Across Teams



Select a Team to View Data and Download

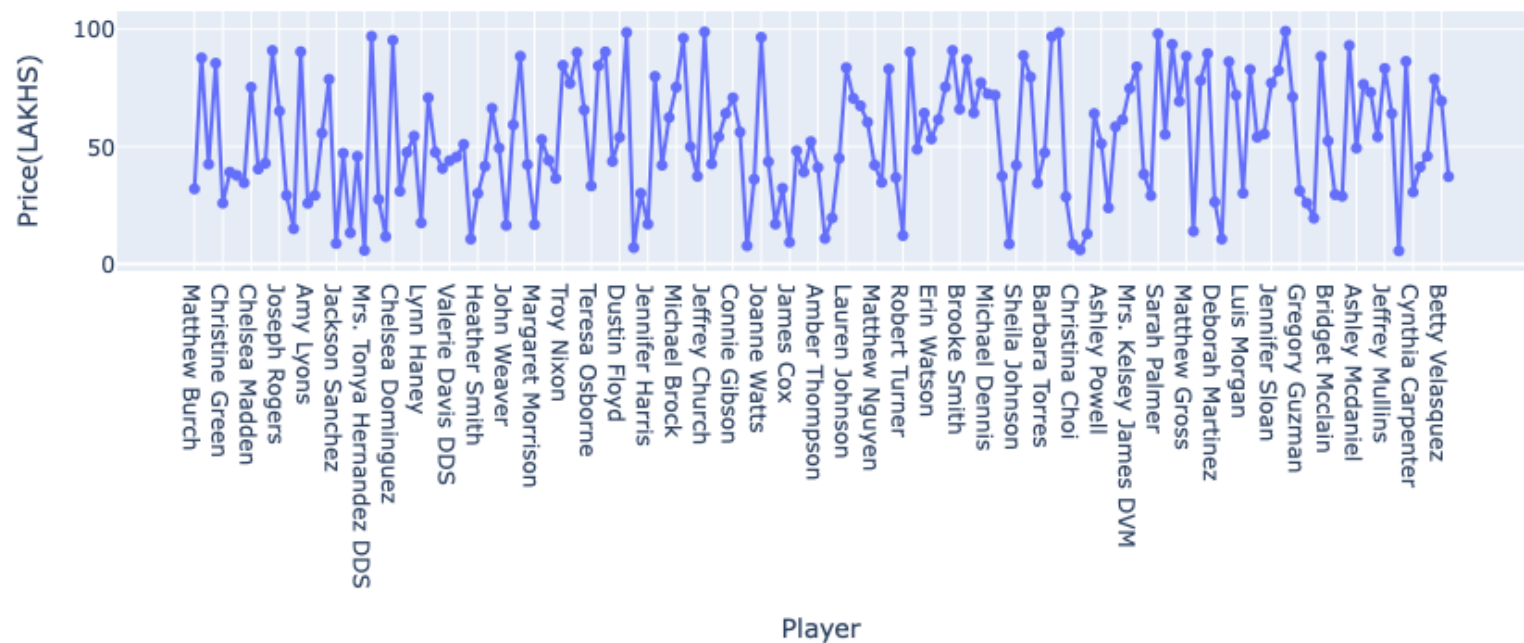
Jaipur Pink Panthers

Team Details

Player	Team	Price(LAKHS)
Matthew Burch	Jaipur Pink Panthers	32
Pamela Morris	Jaipur Pink Panthers	87.77
Jasmine Gutierrez	Jaipur Pink Panthers	42.46
Elizabeth Mccann	Jaipur Pink Panthers	85.5
Christine Green	Jaipur Pink Panthers	25.91
Shawn Meyer	Jaipur Pink Panthers	39.11
Daniel Ware	Jaipur Pink Panthers	37.72
Todd Heath	Jaipur Pink Panthers	34.58
Chelsea Madden	Jaipur Pink Panthers	75.26
David Pierce	Jaipur Pink Panthers	40.46
Jennifer Wilkinson	Jaipur Pink Panthers	42.86



Price per Player in Jaipur Pink Panthers



Caption

5.CONCLUSION AND FUTURE WORK

5.1 Conclusion

The Kabaddi Match Dashboard provides an interactive platform for tracking match data and performance insights. By incorporating real-time data and an intuitive interface, it enhances the overall match experience for players, coaches, and fans.

Key features of the dashboard include:

- **Simplified Match Management:** Efficiently tracks player performance, team stats, and match results across different tournaments and leagues.
- **Real-Time Insights:** Enables users to monitor match progress, player statistics, and team rankings in real time, helping coaches make strategic decisions and fans stay engaged.
- **Enhanced User Experience:** The dashboard offers an easy-to-use interface for players, coaches, and team managers to track player health, performance metrics, and match outcomes.
- **Scalability:** Serves as a base for future advancements such as AI-powered performance analytics and mobile app integration.

5.2 Future Scope

The Kabaddi Match Dashboard has great potential for further enhancements and expansion. Future updates could include:

- **Integration with Kabaddi ERP Systems:** Integration with club management systems for seamless updates on player stats, match scheduling, and team management, allowing coaches and team managers to have an all-in-one platform.
- **Player Tracking and Health Data:** Facilitating real-time tracking of player health, fitness, and injury reports to improve performance monitoring and recovery planning.
- **Mobile Accessibility:** Development of a mobile-friendly version of the dashboard, enabling real-time match updates, player tracking, and statistics while on the go.

- **Real-Time Notifications:** Introducing alerts for game updates, player milestones, and injury reports, ensuring users are constantly informed during matches.
- **Expanded Services:** Adding new features such as fan engagement tools, team sponsor promotions, and integrating third-party platforms like online ticket sales or merchandise shops.
- **Scalability for International Leagues:** Exploring the possibility of expanding the dashboard for international tournaments, enabling cross-league data analytics and comparisons.

By adding these features, the Kabaddi Dashboard will become a more comprehensive tool for players, coaches, and fans alike, ensuring a more engaging and streamlined experience for everyone involved in the sport.

PKL Kabaddi Dashboard

Datasets Used:

- **PKL Match Records:** Player performance, team statistics, and match outcomes.
- **Venue & Attendance Data:** Stadium locations, audience count, and ticket sales.
- **Team Finances:** Sponsorship details and team budgets.

Libraries and Tools:

- **Python Libraries:** Pandas, NumPy, Dash, Plotly, and Openpyxl.
- **Data Visualization:** Dash Framework and Plotly.
- **Database:** Excel sheets for structured data storage.

Documentation and Articles:

- *"Strategic Analysis of Pro Kabaddi League Teams"* – Sports Analytics Journal.
- *"The Evolution of Kabaddi in India"* – National Sports Review.

Web Resources:

- [PKL Official Website](#)
- [Dash Plotly Documentation](#)
- [Pandas Python Library Documentation](#)

