Proposal Document for:
CANADIAN PREMIER LEAGUE:
DREAM TEAM

By Data Legion:

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Summary:

CPL is a professional men's soccer league in Canada is known as the Canadian Premier League (CPL or CanPL; French: Première ligue canadienne). It serves as the country's main national soccer league competition and is at the top of the Canadian soccer league structure. There are eight clubs in the league, representing five of Canada's 10 provinces. The regular season, which consists of 28 games for each team, is followed by playoffs and the CPL Finals.

Purpose:

The purpose of this project is to create a Dream Team for the Canadian Premier League using Python and Power BI. The project involves collecting data on players' performances, and teams and modeling the data to identify the best players for each position, visualizing the data to create an interactive dashboard, performing clinical analytics to identify potential KPIs. The stakeholders involved in the project are the team members and CPL Fans. The project will provide a valuable tool for creating a Dream Team for the 2019 Season of the CPL.

Steps covered:

- **Data collection:** The Data for this Project is collected from CPL's Official Website.
- **Data Modeling:** To build data model we will use Power Query and Python libraries like Scikit – learn.
- **Clinical Analysis:** We will use Python libraries like NumPy and Pandas for Clinical Analysis.
- **Data Visualization:** We will use Matplotlib, Seaborn and Power BI to visualize our data.
- **Reporting:** For reporting purposes we will build an interactive dashboard using Power BI.

Building the Dream Team:

We will be using the **4-4-2 Formation** that is best suitable to analyze the players stats. The 4-4-2 is a formation in football that is made up of three distinct lines. The back line of four defenders comprises two centre-backs and two full-backs. Ahead of them, a midfield unit of four features two players in the middle and one on each side. The front line of two is formed by two centre-forwards who, in attack, provide both height and goalscoring threat.

Key Performance Indicators (KPIs):

	Criteria A	Criteria B	Criteria C
Offence	Goals	Expected Goals	Penalties Scored
Midfield	Assists	Expected Goals	Total Chances Created
Defense	Successful Tackles	Interceptions	Clean Sheets
Goalkeeper	Total Saves	Clean Sheets	-

Final Outcomes:

- **Player Statistics:** A comprehensive dataset of player statistics, including goals, assists, shots, passes, tackles, and more.
- **Data Model:** A data model that enables efficient querying and analysis of player data
- **Dashboard:** An interactive dashboard that enables stakeholders to visualize and explore player and team data.
- **Dream Team:** An ultimate dream team for the 2019 CPL Season comprising of best players in each position.

DREAMTEAM

Player_ID	
Position_ID	
Player_name	

Position

PK	Position_ID
	Player_ID

GoalKepper

Position_ID
Games_with_zero_goals_concceded
Total_save
Player_ID

Strike

Position_ID
Player_ID
shots_on_target
shot_on_target_inside_box
shot_on_target_outside_box
Penalties_scored
Headed_goals
goals
Expected_goals

Midfilder

Position_ID
Player_ID
Expected_assists
Total_chances_created
Big_chances_created
through_ball_completed
Interceptions
Successful_duels
Assits

Defender

Position_ID
Player_ID
Successful_tackels
Ball_Recoveries
Interceptions
Defensive_touches
Games_with_zero_goals
Total_clearnce