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BUSINESS PROBLEM AND OBJECTIVE

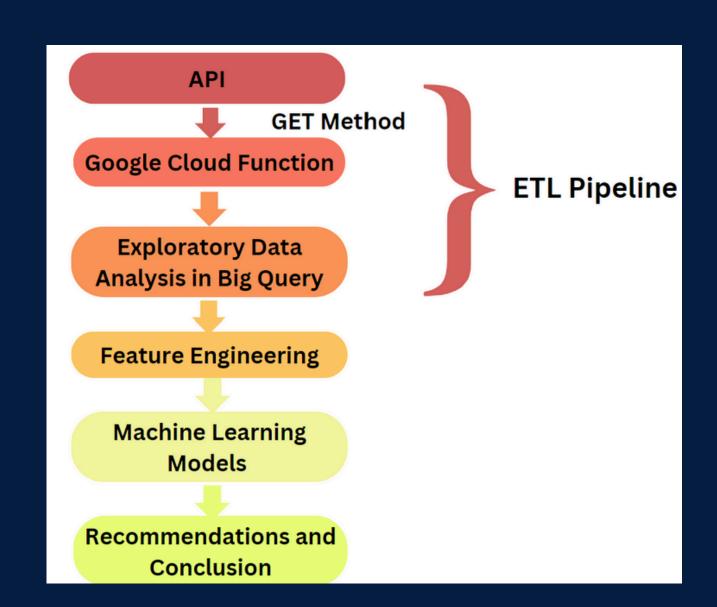
Currently, Boston Glory does
not sufficiently utilize the
vast amount of data
available to make strategic
decisions.

The primary objective is
to enhance the
performance of the
Boston Glory frisbee team
by leveraging data
analytics to provide
actionable insights.

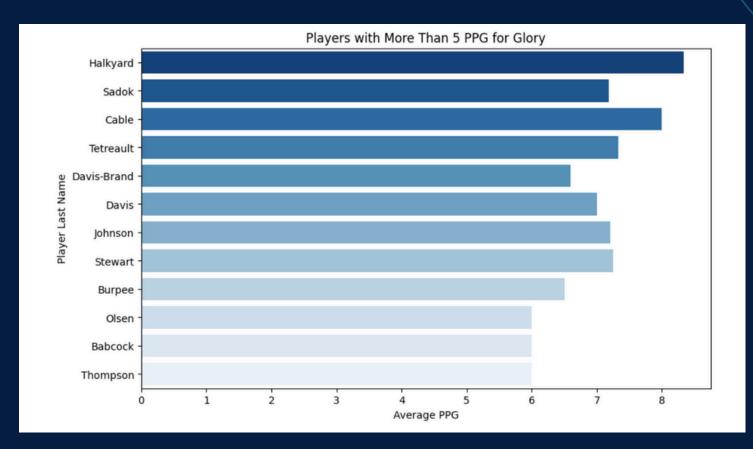
The focus is on identifying key areas of offensive and defensive strengths and weaknesses and suggesting on-field strategies that can lead to wins and championships within the UFA league.

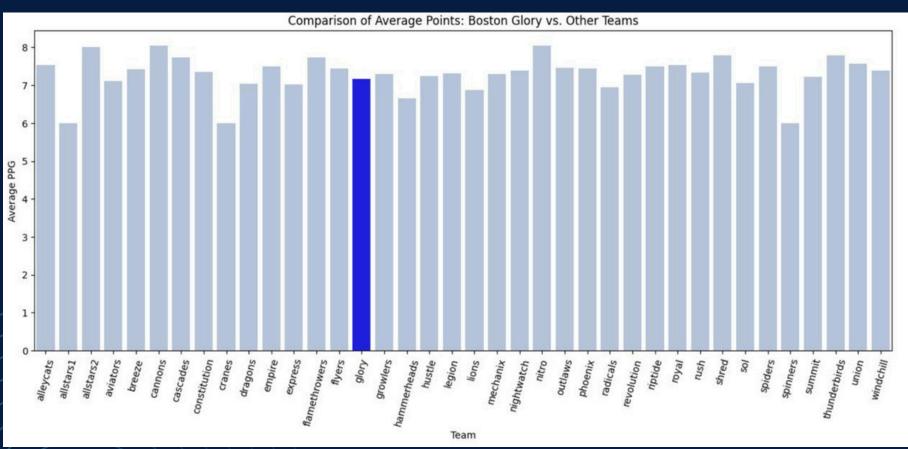
DATA COLLECTION, METHODOLOGY & PROCESSING

- We source our data from the UFA API which has playby-play data from all games and teams from 2019 through the 2024 seasons
- We build a low cost, easily managed ETL infrastructure(Google Cloud Function) to automate cleaning and ingestion of the data from these sources into our Data Warehouse Google BigQuery
- We also used Cloud Schedulers for event triggers
 weekly to update data, dashboards and models which
 will help the team the real time insights



ADDRESSING THE NEED FOR OFFENSIVE IMPROVEMENT





- Boston Glory is scoring 7.27 PPG compared to league average of 7.43 PPG
- Top two offensive players scoring approximately 8.0 PPG
- How can we score more points?
 - Increase yardage
 - Reduce turnover rate
 - Strategize cohesive offensive lineup
 - Score goals

POINT= GOAL + ASSIST



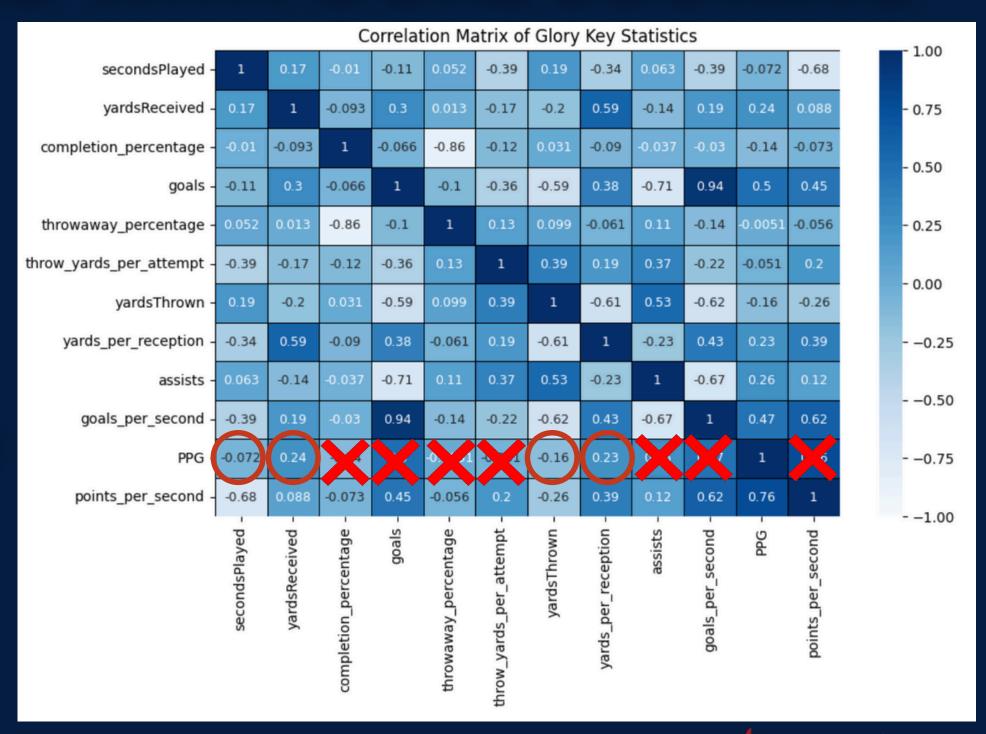
METRICS ASSOCIATED WITH GOAL SCORING

POSITIVE PPG CORRELATION

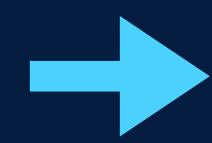
- YARDS RECEIVED: The total number of vertical yards received by the player for the season
- YARDS PER RECEPTION: divide a player's total receiving yards by the number of receptions they've made
- GOALS, ASSISTS, GOALS PER SECOND, POINTS PER SECOND

NEGATIVE PPG CORRELATION

- **SECONDS PLAYED:** The number of seconds on the field by the player
- YARDS THROWN: The total number of vertical yards thrown by the player for the season
- COMPLETION PERCENTAGE, THROWAWAY
 PERCENTAGE, THROW AWAY YARDS PER ATTEMPT



These metrics could improve Boston Glory's offensive performance.



YARDS RECEIVED
YARDS PER RECEPTION
SECONDS PLAYED
YARDS THROWN



FUTURE PROPOSED WORK

01

 We will be implementing supervised machine learning method (Linear Regression) for predicting Points per Game (Goals + Assists) using dependent variables such as 'Yard Received', 'Yard per Reception', 'Seconds Played', 'Yards Thrown

02

• Deliver multiple models and strategies to the Boston Glory front office and present the real time dashboards

O3

- Provide actionable on-field strategy recommendations based on the model outcomes.
- Iterate and refine models based on feedback and additional data

