



Case Study

FOOTBALL DATA DILEMMA

BILLION-POUND STRATEGY FOR SUCCESS!



Introduction

Football data analytics presents both challenges and opportunities, with the abundance of data available. The effective analysis of this data is crucial for teams, coaches, and analysts to make informed decisions that impact game strategies and player performance.

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Data Exploration

Familiarizing with provided data sources

Data Collection

Collecting necessary datasets for better results

Data Preprocessing

Handling missing values and optimizing datasets as per need

Data Analysis & Visualizations

Finding the trends using data driven approach and power BI for more insights

Strategical Approach

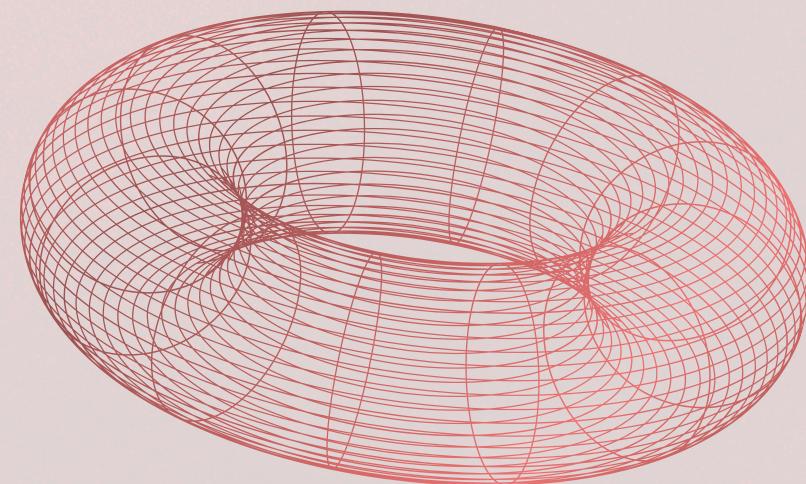
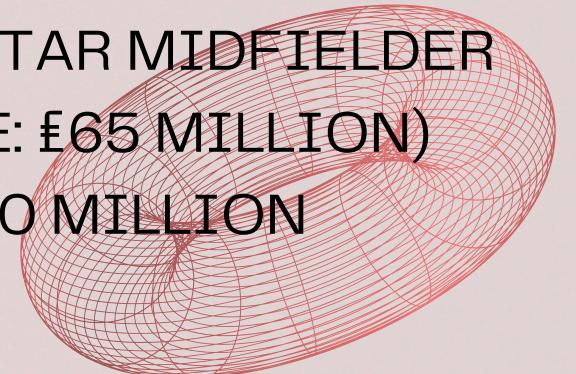
Problem Statement

CONDITION-1

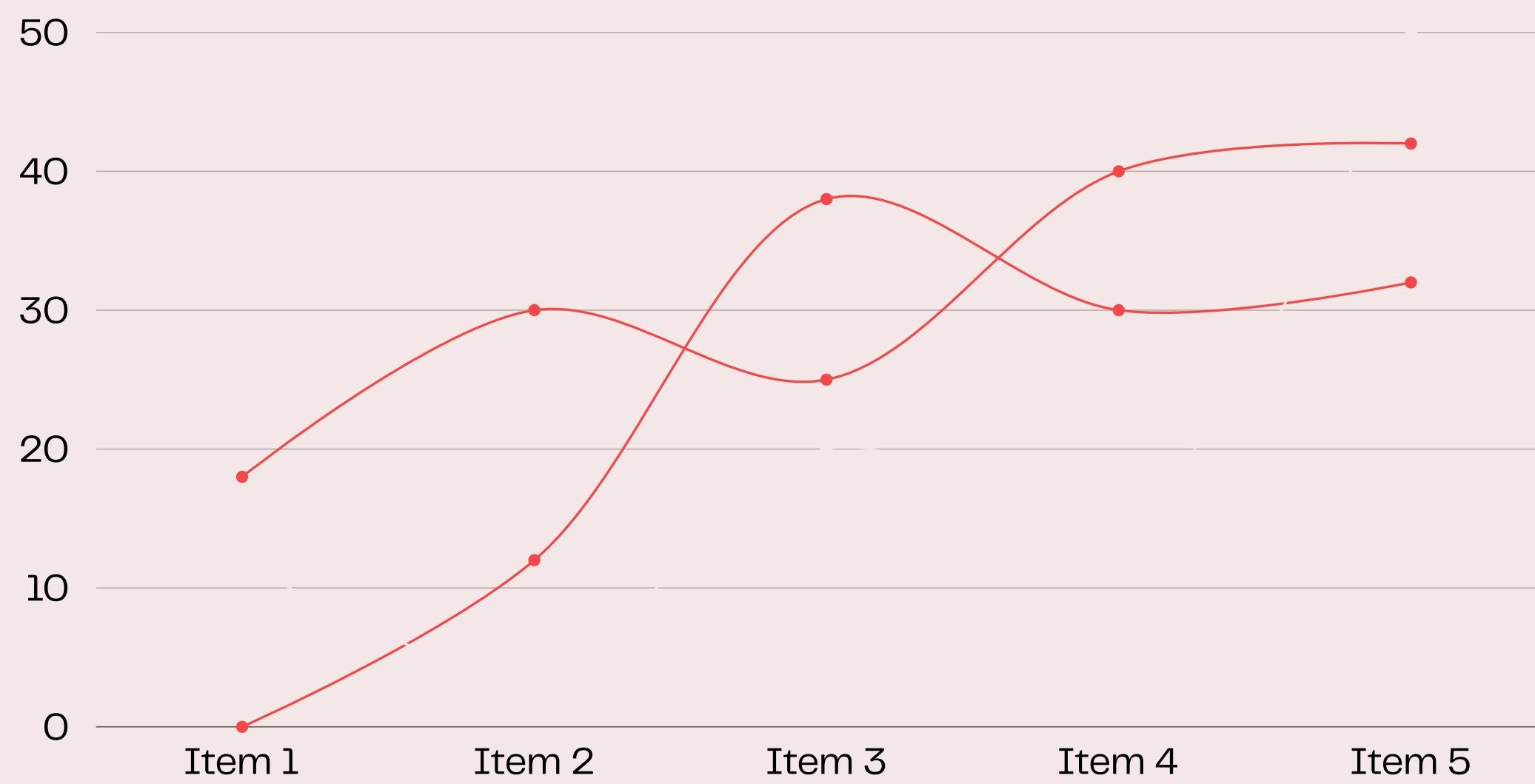
MINIMUM PLAYERS TO BUY: 3
MAXIMUM PLAYERS TO BUY: 8
NET SPEND (BUY/SELL): £150 MILLION

CONDITION-2

MINIMUM PLAYERS TO BUY: 3
MAXIMUM PLAYERS TO BUY: 8
COMPULSORY REPLACEMENT: STRIKER FOR NICOLAS JACKSON (Transfer Fee of Nicolas Jackson Jackson: £25m)
REPLACEMENT FOR STAR MIDFIELDER FOR INJURED PLAYER
COMPULSORY SIGNING: STAR MIDFIELDER (MINIMUM MARKET VALUE: £65 MILLION)
NETSPEND (BUY/SELL): £150 MILLION



Data Sources:



Market
Value of
Player

TRANSFERMARKT

Players
Performance
Data

UNDERSTAT API

Overall
Teams
Data

FPL API



IIT KHARGHAR

Weaknesses of Chelsea F.C.

Defending against long shots

Defending against through ball attacks

Defending set pieces

Defending counter attacks

Result:

Bio	Strengths	Market Value (Million euros)
 Name: Lucas Paquetá Position: Attacking Midfield	<ul style="list-style-type: none">Aerial DuelsThrough ballsDribblingDefensive contributionTackling	65
 Name: Trent Alexander-Arnold Position: Right Back	<ul style="list-style-type: none">CrossingKey passesTaking set-piecesDribblingDirect free-kicksPassingBall interceptionConcentration	70
 Name: Tomás Soucek Position: Defensive Midfield	<ul style="list-style-type: none">Aerial DuelsFinishingBlocking the ballBall interception	35

The Team we get after Analysis

Power BI

Insights from FPL
Dataset

FOOTBALL DATA DILEMMA

133K
TOTAL POINTS

122K
AWAY SCORE

BILLION POUND STRATEGY FOR SUCCESS!

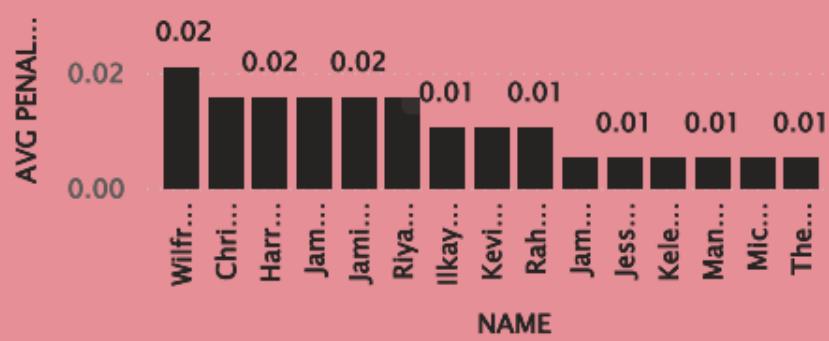
146K
HOME SCORE

5113
YELLOW CARD

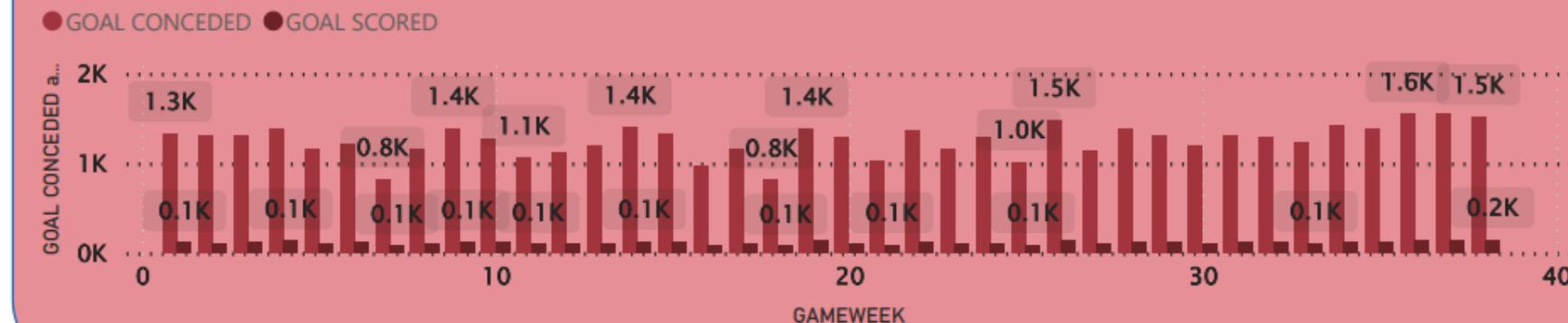
165
RED CARDS

4377
GOALS

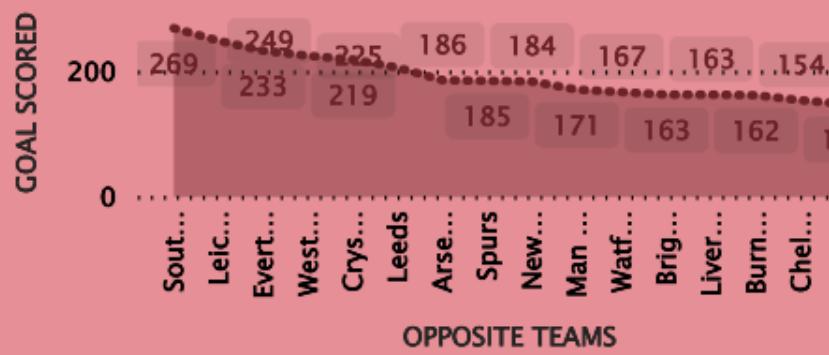
AVG RATE OF PENALTIES MISSED BY PLAYER



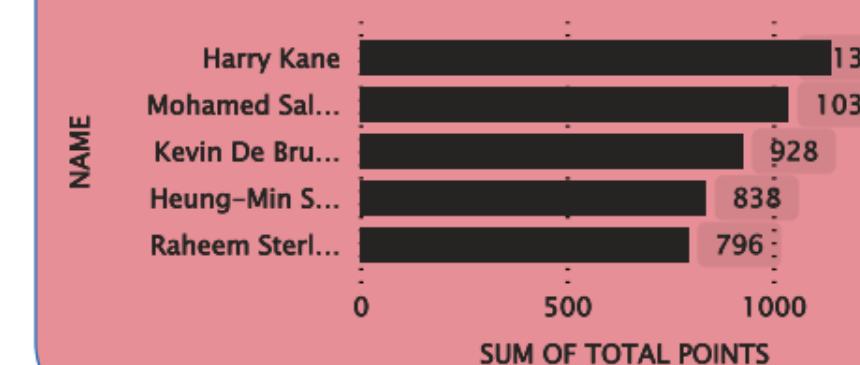
GOAL CONCEDED AND GOAL SCORED BY GAMEWEEK



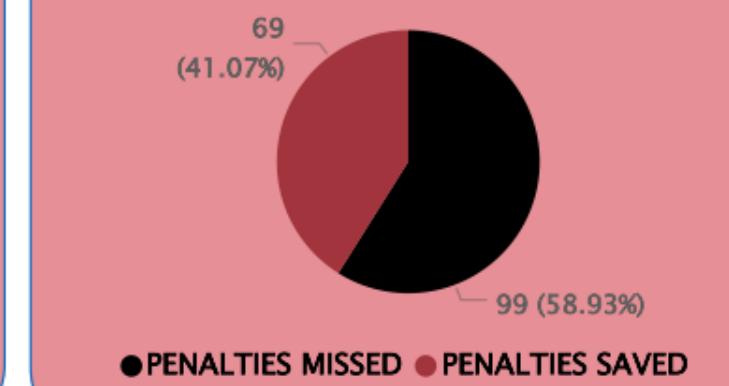
SUM OF GOAL SCORE VS OPPPOSITE TEAM



TOP PLAYER BASED POINTS



PENALTIES MISSED VS PENALTIES SAVED





References

- <https://www.whoscored.com> :- For Players strength weaknesses
- '<https://www.transfermarkt.co.uk/premier-league/marktwerte/wettbewerb/GB1>' :- For top 100 Players
- <https://www.transfermarkt.co.uk> :- For Players Market Values
- <https://swissramble.substack.com/p/chelsea-finances-202122> :- To understand financial status of Chelsea
- <https://understat.com/league/EPL>
- <https://fantasy.premierleague.com/>
- <https://fcpython.com/blog/introduction-scraping-data-transfermarkt>
- <https://fantasy.premierleague.com/api/bootstrap-static/> :- for FPL Data

CONCLUSION :

Our approach combines data from FPL, Transfermarkt, and Understat, offering a comprehensive view of player performance, market values, and in-game statistics. Utilizing Transfermarkt insights for budget allocation and Understat metrics for player performance, our strategy ensures a nuanced squad selection. Strategic acquisitions, guided by Transfermarkt data, adhere to budget constraints, ensuring both financial stability and on-field competitiveness.