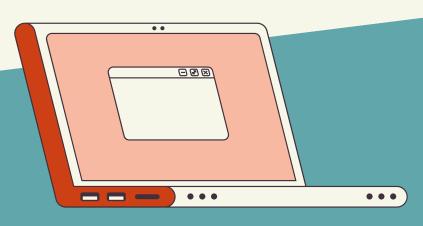




STARC 23 BI-WEEKLY REVIEW



PROJECT NAME

SPORT:	Football
LEADER:	Sukruthi Sanampudi
MEMBER S:	Avani Dhagam Divyansh Vinayak Siddharth Prakash



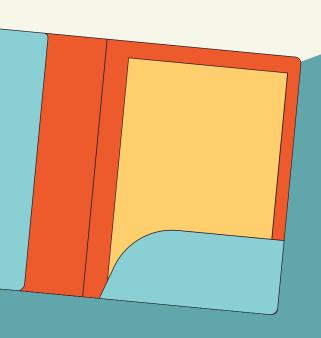
WEEK #4



BACKGROUND



Monte Carlo simulation is a powerful technique that can be applied to football to model and analyze complex parameters that involve uncertainty and randomness. It involves generating multiple simulations using random inputs to generate a range of possible outcomes.



DELIVERABLES

Data Collection:

Gathering the football dataset from various sources, ensuring data completeness and accuracy

Data Processing:

Cleaning and preprocessing the dataset

Feature Engineering

Selecting relevant features to develop predictive models and optimize strategies.

User Interface Development:

Creating an interface that will provide actionable insights for decision-making

PROGRESS MADE

WEEK 1:

- Explored research
 areas, simulation
 frameworks, and
 libraries.
- Explored datasets, focusing on key features relevant to the research.

WEEK 2:

- A total of 10 Papers were
 reviewed with various
 abstracts in connection with
 our topic to increase the
 overall understanding of the
 technologies that can be
 used.
- Cleaning and Filtering of the dataset was using SQLlite queries

WEEK 3:

- Data review and analysis:
 understanding the dataset, its
 structure, and identifying any data
 quality issues or anomalies
 - Analyzed the database and created CSVs of players based on their football positions.
 - Utilized heatmap and correlation matrix to identify attribute effects on the overall rating.

GOALS, OBJECTIVES AND SCOPE



Our major objective for next week is to come with an end to end naive bayes classifier machine learning algorithm which can give us the most accurate and the most optimal top 11 for a specific team based on the various integral parameters that we calculated in the past weeks for each and every position in football

POTENTIAL OBSTACLES

Limited data quality or availability, requiring careful data preprocessing and feature selection.

Complex interactions between variables require advanced modeling techniques and interpretability.

The need for expert domain knowledge to appropriately interpret and validate the results.

Computational complexity and time constraints for large-scale simulations and model

training.

Addressing these obstacles will be crucial to ensure the accuracy and reliability of the

analysis results.

PROJECT APPROVAL

Suggestions

ННННН

APPROVED APPROVED BY BY: POSITION POSITION DD/MM/YYYY DD/MM/YYYY

Add suggestions