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Naan muthalvan project



IPL SCORE PREDICTION USING NEURAL NETWORKS



AGENDA

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5. Solution and its Value Proposition
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INTRODUCTION



- This presentation will delve into the fascinating world of cricket analytics, specifically focusing on the Indian Premier League (IPL) - a tournament that captivates millions of fans around the globe.
- We will explore how the cutting-edge field of neural networks can be harnessed to predict IPL match scores with unprecedented accuracy.

PROBLEM STATEMENT

- The objective of this project is to develop a predictive model using neural networks that can accurately forecast the scores in IPL cricket matches.
- The challenge lies in processing and analyzing vast amounts of historical data, understanding the complex factors that influence cricket scoring, and designing a neural network that can learn from past trends to predict future outcomes.



PROJECT OVERVIEW

- This project aims to harness the power of neural networks to predict the scores in IPL matches with high accuracy.
- By analyzing historical data, including player statistics, team performance, weather conditions, and other relevant factors, the project seeks to build a robust model that can simulate and forecast match outcomes.
- This project stands at the intersection of sports analytics and machine learning, representing an innovative approach.



WHO ARE THE END USERS?

1. Cricket Teams and Coaches ■
2. Sports Analysts and Commentators
3. Fantasy Cricket Players
4. Data Scientists and Students
5. Cricket Enthusiasts and Fans
6. Bettors and Gambling Industries ■

SOLUTION :

- The model utilizes ReLU (Rectified Linear Unit) as the activation function for hidden layers to introduce non-linearity, allowing it to learn complex patterns in the data.
- For the output layer, linear activation functions are used to predict continuous score values.

VALUE PROPOSITION :

- It serves as a testament to the potential of neural networks in processing complex datasets and making predictions that can impact decision-making processes in dynamic environments like sports.

WOW IN MY SOLUTION

High Accuracy:

- Your model's ability to predict scores with remarkable precision, surpassing existing benchmarks.

Complex Data Handling:

- The neural network's capability to process and learn from vast and complex datasets, including diverse factors that influence cricket scoring.

Innovative Use of Technology:

- The application of advanced machine learning techniques and tools like Keras, TensorFlow, and Seaborn to solve a real-world problem.



MODELLING

Input Layer: The first layer of the network receives the preprocessed and normalized data, ensuring that the model has a standardized input to work with.

Hidden Layers: We utilize multiple hidden layers with ReLU (Rectified Linear Unit) activation functions.

Output Layer: The final layer of the network uses a linear activation function.

Regularization: To prevent overfitting, we implement regularization techniques.

Evaluation: Post-training, the model is evaluated using a separate test dataset to assess its predictive performance.

RESULTS

Predicted score

Select Venue:	M Chinnaswamy Stadium	▼
Select Batting ...	Chennai Super Kings	▼
Select Bowling ...	Mumbai Indians	▼
Select Striker:	KM Jadhav	▼
Select Bowler:	DJ Bravo	▼

Predict Score

1 / 1 [=====] - ETA: 0s
1 / 1 [=====] - 0s 23ms/step
162

