Development of Football Tactics and Strategies Driven by Artificial Intelligence

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1.   Round 1

1.1   Reviewer 1

Reviewer:

The abstract mentions that the review adopted a systematic approach but does not specify the number of studies reviewed or the range of years these studies covered. Including these details will enhance the clarity and comprehensiveness of the abstract.

In the sentence "Football is a complex sport that involves quick decision-making, precise player coordination, and high physical demands," the citation format varies from others in the document. Ensure all citations follow a consistent format.

The introduction should clearly define key terms such as "predictive analytics," "machine learning," and "computer vision." This will provide readers with a solid understanding of these concepts as they are discussed throughout the paper.

The article mentions synthesizing data qualitatively but does not specify the method (e.g., thematic analysis, narrative synthesis). Clearly stating the synthesis method will clarify how conclusions were drawn from the data.

The discussion on predictive analytics should include examples of specific machine learning models used (e.g., decision trees, neural networks) to predict football match outcomes.

When discussing player performance optimization, specify the types of data collected (e.g., biometric, positional data) and how these metrics are analyzed to personalize training regimens.

The discussion on ethical considerations should be expanded to include potential biases in AI algorithms, such as how training data might favor certain player profiles or strategies.

The results section should address the long-term impact of AI on player performance and team dynamics, providing insights into how these technologies affect performance over multiple seasons.

Discuss the limitations of current AI technologies in football, such as computational power requirements, data privacy issues, and the potential for over-reliance on technology.

The conclusion should suggest specific areas for future research, such as integrating AI with augmented reality for immersive training or exploring the impact of AI on smaller clubs with fewer resources.

Author revised the manuscript and uploaded the updated document.

1.2   *Reviewer 2*

Reviewer:

The section on data extraction and synthesis lacks detail on the criteria used to evaluate the quality of included studies. Adding a description of the quality assessment process will strengthen the methodology.

The search strategy should list the exact Boolean operators and search strings used. This transparency allows for replication of the study by other researchers.

The exclusion of non-English literature may introduce language bias. Provide a justification for this criterion or consider including a discussion on potential limitations this may introduce.

The article should delve deeper into the potential for AI to introduce biases in decision-making and suggest strategies to mitigate these biases, ensuring fair competition across teams.

Expand the discussion on how AI transforms scouting and recruitment processes by providing specific examples of AI tools and their impact on identifying talent.

Include case studies or specific examples where AI has successfully improved tactical decisions or player performance, providing concrete evidence of AI's impact.

Elaborate on how real-time data is used during matches to make tactical adjustments, including the types of data collected and the decision-making process involved.

Author revised the manuscript and uploaded the updated document.

2.   **Revised**

Editor's decision after revisions: Accepted.

Editor in Chief's decision: Accepted.