

Application of Artificial Intelligence in the Sports Industry: A Review Article

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1. Round 1

1.1 Reviewer 1

Reviewer:

In the sentence "AI's ability to process and analyze large datasets quickly and accurately has opened new possibilities for enhancing athletic performance predicting outcomes managing health engaging fans and ensuring fair officiating," please add citations to support each claim regarding AI's impact on different aspects of sports.

The claim "AI can analyze an athlete's movements in real-time providing instant feedback and suggesting adjustments to improve technique and reduce the risk of injury" requires more detail on the type of AI technologies used and their specific benefits in different sports.

In the example of basketball, it is mentioned that "AI analyzes shooting techniques defensive patterns and player conditioning." Please provide specific studies or data to support these applications.

The section discussing predictive analytics should include a discussion of the limitations and challenges, such as the dynamic nature of sports and the unpredictability of real-time events.

The sentence "By continuously monitoring athletes through wearable devices AI systems can detect early signs of fatigue or stress predicting potential injuries before they occur" would benefit from specific examples or case studies that illustrate successful implementations of this technology.

Address potential ethical issues related to continuous monitoring and data privacy in the section discussing health management.

Author revised the manuscript and uploaded the updated document.

1.2 Reviewer 2

Reviewer:

The phrase "The integration of AI in sports is not only transforming how athletes train and compete but also how fans experience sports and how officials make critical decisions during games" needs examples or case studies to substantiate the claims.

The statement "Traditional methods of data analysis are often inadequate for extracting meaningful insights from such vast and varied datasets" would benefit from a brief explanation or reference to specific traditional methods and their limitations.

Consider breaking down the sentence "AI-driven analytics are revolutionizing athletic performance by offering personalized training programs that are tailored to an individual athlete's needs" into two sentences for clarity and to avoid overloading information.

The section on personalized recommendations should include specific examples of AI-driven platforms or systems that have successfully enhanced fan engagement.

Discuss the potential negative impacts of personalized recommendations, such as creating echo chambers, in the paragraph about AI-driven recommendation systems.

Author revised the manuscript and uploaded the updated document.

2. Revised

Editor's decision after revisions: Accepted.

Editor in Chief's decision: Accepted.