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22. Artificial Intelligence (AI) and Sports Performance

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Abstract

Artificial Intelligence (AI) is beginning to play a key role in allowing wearable tech. devices to provide a useful statistics derived from performance measurements that allow athletes to improve their training and therefore their performance.

By processing machine learning readings using AI, it is possible to start with a smaller amount of data and gradually train the ML models with more data over time to improve accuracy and helps athletes to achieve their best.

Key words: Artificial Intelligence, Machine Learning Game Changer, Sports Analytics.

Introduction

Artificial Intelligence (AI) became accessible to everyone now. Its application being used in a number of different domains. Video games, PUBG on line multiplayer battle royal game during Pariksha per charcha 2.0, Prime Minister Narendra Modi was told by a concerned mother that her son was addicted to online games and was neglecting his studies. The PM replied "PUBG wala hai kya?" to the great amusement of the audience. In particular have leveraged AI to assist and direct gaming character/avatars to act in a human way and to assist the characters in their interaction with game or other players.

AI makes it possible for machines to learn from experience, adjust to new inputs and perform human like tasks. Most of AI examples that we hear about today-from chess-playing computers to self driving cars, rely heavily on deep learning and natural language processing.

Using these technologies, computers can be trained to accomplish specific tasks by processing large amounts of data and recognizing patterns in the data.

I try to cover ways artificial intelligence tech, in particular, is impacting sports now and in the future.

Sports performance and wearable technology

Machine learning-an area of AI, is when a computer programmed to mimic human cognitive functions such as learning and problem solving. With wearable technology-like Apple Watch, Fit

performance. rate, nutrition and other healthy statistics. Just imagine, how helpful this data can be for athletic Bit and others is so pervasive that almost anyone can access data on their activity levels, hears

performance analysis- measurements that allow athletes to improve their training and out levels and over all fitness. Some wearables are even used during games, for use in post game Wearable tech, is used by most teams as they practice, to track sleep patterns, diet, work

Coaching and wearable Technology

goals by making judgements based on what they can see. and to spot mistakes and inefficiencies while watching a game. Coaches typically set targets and Often, athletes will need a coach to give them direction on how to improve their form.

movement in real time which provide continuous movement information that shows variations Wearables contain smart sensors such as accelerometers or gyroscopes can track body.

patterns for a forehand shot, compared with a backhand equivalent. when different event occur. For example, a wrist-worn device will read different movement

us process vast amounts of statistical data with less effort than ever and can even identify factors even movement classifications by them. For events like fore hand back hand, volleys etc. Al lets movements such as the way the players are holding a rocket, what serve or shot they are doing or Readings from wearables allowing human coaches to be analyzed for inefficient to

affecting sports performance that are impossible for us humans to detect.

Sports Analytics Revolution

Machine learning is changing sport performance now and in the future and it can be

analytics should be able to extract valuable actionable insights for the Coaches and Managers to game data and individual players performance data. These advanced and sophisticated type of insight about potential players performance based on the use of a variety of data sources such as Sport analytics is comprising the process of identifying and acquiring the knowledge and applied to sports in a range of ways with data science. Were the range of ways with data science.

Sports analytics can be utilized in various domains including:

Predicting the outcome of a game and another manner

utillize.

Predicting the performances of teams or individual players

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- Building new strategies for upcoming competitions
- Deciding the price of a player if club was to rent/sell/buy him/her
- Connecting players to brands and sponsors

With machine learning and predictive analytics, enabling coaches to identify weaker or stronger players, their physical state and supporting their decisions when it comes to whom to replace during match or whom to keep on the bench. And by studying patterns of play and player movements, coaches can reconfigure play strategy to make use of each players strengths and offset their weakness to improve overall team performance. Overtime, coaches can study the impact of data-driven decisions and strategies on overall player and team performance by analyzing the change in player data.

Conclusion

Improvements in technology and machine learning continue to progress the field towards artificial intelligence and real time use in sport. But is it possible that artificial intelligence will ever replace the Coach/Manager?

Suggested Reading

- https://www.sporttchie.com/puma product
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