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## Patent Search

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#### Abstract:

The present invention relates to a deep learning and internet of things (IoT)-based investigation and evaluation system for analysing athletic health records. The system comprising a data collection module configured to collect historical and ground truth data and store in a memory unit via the cloud network; a statistical analysis module configured to identify patterns and trends in the collected data, and to make predictions about future performance; a machine learning module configured to be trained on historical data to identify patterns and make predictions about future performance; a data visualization module coupled configured to identify patterns, trends, and trained data, and to identify areas for improvement; and a predictive module coupled to the data visualization module and is configured to predict a likelihood of a certain outcome based on the data collected and trained data.

#### Complete Specification

Description:[001] The present invention relates to the field of IoT-based deep learning system for analyzing athletic health records. The invention more particularly to a system with deep learning and Internet of Things (IoT)-based investigation and evaluation of algorithms for analyzing athletic health records.

#### BACKGROUND OF THE INVENTION

[002] The following description provides the information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[003] Athletic health records are records that document an athlete's physical condition, performance, and medical history. They may include information such as Physical exams: This includes information on an athlete's height, weight, body mass index (BMI), and vital signs such as blood pressure and heart rate. Medical history includes information on any past injuries, illnesses, surgeries, or other medical conditions that may affect an athlete's performance. Training and performance data includes information on an athlete's training regimen, such as the types of exercises performed and the intensity of the training. It may also include data on the athlete's performance in competitions and practices. Nutrition and supplement information: This includes information on an athlete's diet and any supplements they take, any allergies or sensitivities. Sleep and recovery data: This includes information on an athlete's sleep patterns and the measures they take to recover from training and competitions, such as stretching, foam rolling, and massage. Wearable data: This includes information gathered from wearable devices, such as smart watches, heart rate monitors, and GPS trackers, which can provide real-time data on an athlete's activity levels, sleep patterns, and physical condition.

[004] Having access to this information and being able to analyze it can help coaches, trainers, and medical professionals to identify patterns and trends in an athlete's performance and physical condition, and to make informed decisions about training, nutrition, and injury prevention. There are several disadvantages of current systems

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