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### Patent Search

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**Abstract:**

Fuzzy machine learning and blockchain: a new approach to cybersecurity in electric vehicle-based smart cloud models is the proposed invention. The proposed invention focuses on understanding the functions of cybersecurity. The invention focuses on analyzing the parameters of electric vehicle based smart cloud models using algorithms of Learning.

[Complete Specification](#)

Description:[0001] Background description includes 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.

[0002] Machine learning (ML) is a branch of artificial intelligence (AI) and computer science that focuses on the using data and algorithms to enable AI to imitate that humans learn, gradually improving its accuracy. Machine learning refers to computational systems that mimic human cognition, by iteratively adapting algorithm solve complex problems. Fuzzy logic is a set of rules and functions that can operate on imprecise data sets, but the algorithms still need to be coded by humans.

[0003] A number of different types of cyber security in electric vehicle analysis systems that are known in the prior art. For example, the following patents are provided their supportive teachings and are all incorporated by reference.

[0004] Integration of blockchain technology and federated learning in vehicular networks: a comprehensive survey: The Internet of Things (IoT) revitalizes the work tremendous capabilities and potential to be utilized in vehicular networks. The Smart Transport Infrastructure (STI) era depends mainly on the IoT. Advanced machine learning (ML) techniques are being used to strengthen the STI smartness further. However, some decisions are very challenging due to the vast number of STI computation and big data generated from STIs. Computation cost, communication overheads, and privacy issues are significant concerns for wide-scale ML adoption within STI. These issues can be addressed using Federated Learning (FL) and blockchain. FL can be used to address the issues of privacy preservation and handling big data generation management and control. Blockchain is a distributed ledger that can store data while providing trust and integrity assurance. Blockchain can be a solution to data integrity and can add more security to the STI. This survey initially explores the vehicular network and STI in detail and sheds light on the blockchain and FL with real-world implementations. Then, FL and blockchain applications in the Vehicular Ad Hoc Network environment from security and privacy perspectives are discussed in detail.

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