Patent Search

Invention Title	USING MACHINE LEARNING TECHNIQUES PREDICTION OF ANALYSIS OF DATA USING IOT DEVICES
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Abstract:

ABSTRACT The Internet of Things (IoT) applications have grown in exorbitant numbers, generating a large amount of data required for intelligent data processing. Hov varying IoT infrastructures (i.e., cloud, edge, fog) and the limitations of the IoT application layer protocols in transmitting/receiving messages become the bmTiers in c intelligent IoT applications. These barriers prevent current intelligent IoT applications to adaptively learn from other IoT applications. In this paper, we critically review IoTgenerated data are processed for machine learning analysis and highlight the current challenges in furthering intelligent solutions in the IoT environment. Further propose a framework to enable IoT applications to adaptively learn from other IoT applications and present a case study in how the fran1ework can be applied to the in the literature. The study illustrates the benefits and limitations of applying ML in an IoT environment and provides a security model based on ML that manages aut the rising number of security issues related to the IoT domain. The paper proposes an ML-based security model that autonomously handles the growing number of s issues associated with the IoT domain. This research made a significant contribution by developing a cyberattack detection solution for IoT devices using ML.

Complete Specification

FIELD OF THE INVENTION

The tenn "Internet of Things" (JoT) refers to a system of networked computing devices that may work and communicate with one another without direct human intervention. It is one of the most exciting areas of computing nowadays, with its applications in multiple sectors like · cities, homes, wearable equipment, critical infrastructure, hospitals, and transportation. The security issues surrounding IoT devices increase as they expand. To address these issues, this study presents a novel model for enhancing the security of IoT systems using machine learning (ML) classifiers. The proposed approach analyzes recent technologies, security, intelligent solutions, and vulnerabilities in ML IoT-based intelligent systems as an essential technology to improve IoT security. The study illustrates the benefits and limitations of applying ML in an IoT environment and provides a security model based on ML that manages autonomously the rising number of security issues related to the IoT domain. The paper proposes an ML-based security model that autonomously handles the growing number of security issues associated with the ToT domain. This research made a significant contribution by developing a cyberattack detection solution for IoT devices using ML. The study used seven ML algorithms to identify the most

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