Machine Learning Algorithms for the Detection of Threats in IoT Healthcare

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Arun V ; P. Shenbagavalli ; Sridhar T ; Manivannan B ; Mahesh T R ; K Anitha All Authors

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Abstract:
IoT (Internet of Things) technology enables the connectivity and communication of healthcare-related equipment, medical devices, and sensors. This connectivity enables better monitoring, data collecting, and analysis, which leads to better patient outcomes and more effective healthcare delivery. However, with the rising use of linked devices, it is critical to detect and prevent Cyberattacks in order to secure sensitive patient information. In order to tackle this problem, the article delves into the application of machine learning methods like Support Vector Machine (SVM), K-Nearest Neighbor (KNN), Logistic Regression (LR), Random Forest (RF), and Naive Bayes (NB), These algorithms were evaluated using the WUSTL EHMS2020 dataset and demonstrated the highest level of accuracy.

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Authors

Arun V
Department of Computing Technologies, School of Computing, SRM Institute of Science and Technology, Kattankulathur

P. Shenbagavalli

Division of Digital Sciences, Karunya Institute of Technology and Sciences, India

Sridhar T
Alliance College of Engineering and Design, Alliance University, Bangalore, India

Manivannan B
Computer Science and Engineering, Vivekanandha College of Engineering For Women(Anna University), Namakkal, India

Mahesh T R
Department of Computer Science and Engineering, Faculty of Engineering and Technology, JAIN (Deemed-to-be University), Bangalore, India

K Anitha
Department of Information Technology, CSI College of Engineering, Ooty, Tamilnadu

Figures

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