World Academy of Science, Engineering and Technology
International Journal of Computer and Information Engineering
Vol:18, No:02, 2024

Insider Theft Detection in Organizations Using Keylogger and Machine Learning

Authors : Shamatha Shetty, Sakshi Dhabadi, Prerana M., Indushree B.

Abstract : About 66% of firms claim that insider attacks are more likely to happen. The frequency of insider incidents has increased by 47% in the last two years. The goal of this work is to prevent dangerous employee behavior by using keyloggers and the Machine Learning (ML) model. Every keystroke that the user enters is recorded by the keylogging program, also known as keystroke logging. Keyloggers are used to stop improper use of the system. This enables us to collect all textual data, save it in a CSV file, and analyze it using an ML algorithm and the VirusTotal API. Many large companies use it to methodically monitor how their employees use computers, the internet, and email. We are utilizing the SVM algorithm and the VirusTotal API to improve overall efficiency and accuracy in identifying specific patterns and words to automate and offer the report for improved monitoring.

Keywords : cyber security, machine learning, cyclic process, email notification
Conference Title : ICCSPS 2024 : International Conference on Computer Science, Programming and Security
Conference Location : Mumbai, India
Conference Dates : February 12-13, 2024