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(71)Name of Applicant :

1)Noida Institute of Engineering & Technology

Address of Applicant :Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India Greater Noida -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Priyanka Chandani

Address of Applicant :Department of Computer Science and Engineering (Data Science), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater Noida -----

2)Ms. Sonia Arora

Address of Applicant :Department of Computer Science and Engineering (CSBS), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater Noida -----

3)Ms. Manali Gupta

Address of Applicant :Department of Computer Science and Engineering (CSBS), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater Noida -----

4)Ms. Garima Jain

Address of Applicant :Department of Computer Science and Engineering (CSBS), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater Noida -----

(57) Abstract :

Accordingly, embodiments herein disclose system and method for automated preemptive alert triggering object classification using machine learning. The system comprises a model database containing a machine-learning classifier that is configured to generate a risk prediction based on inputted features. The system includes first and second input devices for receiving and displaying inputs from a user, respectively; and at least one server configured to: receive electrical signals from the first input device, the electrical signals corresponding to a plurality of user inputs provided to the first input device; automatically generate input-based features from the received electrical signals; input the input-based features into the machine-learning classifier; automatically and directly generate a risk prediction with the classifier from the input-based features; and generate and display an alert when the risk prediction exceeds a threshold value.

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