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(54) Title of the invention : CYBER ATTACK PREDICTION

(51) International classification	:G06F 162500, G06F 215500, G06F 215700, G06N 050400, H02J 030000	(71)**Name of Applicant :** 1)**Chitkara University** 　Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- ----------- 2)**Bluest Mettle Solutions Private Limited** **Name of Applicant : NA** **Address of Applicant : NA** (72)**Name of Inventor :** 1)**MISHRA, Saket** Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune ----------- ----------- 2)**PANDEY, Sakshi** Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune ----------- ----------- 3)**SHARMA, Ishu** Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------
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(57) Abstract :
The present invention discloses a system and method for managing network security in a computer network. The system consists of a processor, a security module, and a response module. Utilizing a machine learning model, the security module generates risk scores for network transactions, indicating the likelihood of cyber attacks. The response module triggers responses based on these risk scores, including communication restrictions for transactions exceeding a predetermined threshold and recording transactions while notifying user devices for risk scores falling within specified thresholds.

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