

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311041658 A

(19) INDIA

(22) Date of filing of Application :22/06/2023

(43) Publication Date : 21/07/2023

(54) Title of the invention : SYSTEM TO IDENTIFY CIPHER TEXT AND ENCRYPTION ALGORITHM AND METHOD THEREOF

(51) International classification :G01R 314000, G06F 402050, H04L 090000, H04L 090600, H04L 091600
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(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, Rahul

Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)SINGH, Dhiraj

Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)KUKREJA, Vinay

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The present invention discloses a system (100) that offers a reliable and automated approach for analyzing and deciphering encrypted messages by identifying cipher text and encryption techniques. The system (100) utilizes a processor (102) that receives the cipher text and evaluates frequency distribution of characters to determine category of the cipher text, and calculates a coincidence index, prioritizing letters that indicate encryption technique used to convert plain text into cipher text. Additionally, the processor (102) identifies signatures within the cipher text and matches them with a database containing multiple signatures, thereby categorizing and identifying the encryption algorithm used. Finally, the system transmits the identified algorithm and related information to a user's computing device, facilitating decryption process.

No. of Pages : 26 No. of Claims : 10