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(54) Title of the invention : SYSTEM TO DETECT DEPRESSION USING ARTIFICIAL INTELLIGENCE

(51) International classification : G06N0020000000, G06Q0010100000, G06N0003040000, G10L0015260000, G06N0005020000	(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)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 disclosure relates to a system (100) and method (300) that includes a processor (102) and memory (104) that execute a set of instructions to detect depression. The system receives a first and second set of data from the one or more individuals (114) through one or more computing devices (112) and collect a dataset of speech and text data for training one or more machine learning algorithms. Additionally, the system compares the first set of data and the second set of data from the one or more individuals (114) and detects a set of patterns similar between the compared first set of data and second set of data using the one or more machine learning algorithms. The processor (102) also assesses the detected set of patterns to provide a feedback to the one or more individuals (114) for providing guidance on the choice of treatment.

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