

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341033885 A

(43) Publication Date : 18/08/2023

(54) Title of the invention : HUMAN STRESS DETECTION IN AND THROUGH SLEEP BY USING AI

(51) International classification	:A61B 051600, A61P 252000, G01L 012400, G01L 012500, G01L 050000	(71) Name of Applicant : 1)Dr.V.BALAJI Address of Applicant :Professor, Dept Of CSE, Velammal Institute of technology, Chennai- kolkotta National highway, Panchetti, ponneri, Thiruvallur (DT)-601204 -----
(86) International Application No Filing Date	:PCT// :01/01/1900	2)Mr.R.Prabhu Arokイヤraj 3)Aishwarya E 4)Kamireddy Gnapika 5)Mary Annie S 6)Vandhana V 7)PRANESHWER.P 8)HARIEESH RAKHAVANDARAN.N.A 9)VENGATESH KUMAR.M
(87) International Publication No	: NA	Name of Applicant : NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA :NA	Address of Applicant :NA
(62) Divisional to Application Number Filing Date	:NA :NA	(72) Name of Inventor : 1)Dr.V.BALAJI Address of Applicant :Professor, Dept Of CSE, Velammal Institute of technology, Chennai- kolkotta National highway, Panchetti, ponneri, Thiruvallur (DT)-601204 -----
		2)Mr.R.Prabhu Arokイヤraj Address of Applicant :Assistant Professor, Dept Of CSE, Velammal Institute of technology, Chennai- kolkotta National highway, Panchetti, ponneri, Thiruvallur (DT)-601204. -----
		3)Aishwarya E Address of Applicant :Aishwarya E UG Scholar, Dept Of CSE, Velammal Institute of technology, Chennai- kolkotta National highway, Panchetti, ponneri, Thiruvallur (DT)-601204 -----
		4)Kamireddy Gnapika Address of Applicant :UG Scholar, Dept Of CSE, Velammal Institute of technology, Chennai- kolkotta National highway, Panchetti, ponneri, Thiruvallur (DT)-601204 -----
		5)Mary Annie S Address of Applicant :UG Scholar, Dept Of CSE, Velammal Institute of technology, Chennai- kolkotta National highway, Panchetti, ponneri, Thiruvallur (DT)-601204 -----
		6)Vandhana V Address of Applicant :UG Scholar, Dept Of CSE, Velammal Institute of technology, Chennai- kolkotta National highway, Panchetti, ponneri, Thiruvallur (DT)-601204 -----
		7)PRANESHWER.P Address of Applicant :UG Scholar, Dept Of CSE, Velammal Institute of technology, Chennai- kolkotta National highway, Panchetti, ponneri, Thiruvallur (DT)-601204 -----
		8)HARIEESH RAKHAVANDARAN.N.A Address of Applicant :UG Scholar, Dept Of CSE, Velammal Institute of technology, Chennai- kolkotta National highway, Panchetti, ponneri, Thiruvallur (DT)-601204 -----
		9)VENGATESH KUMAR.M Address of Applicant :UG Scholar, Dept Of CSE, Velammal Institute of technology, Chennai- kolkotta National highway, Panchetti, ponneri, Thiruvallur (DT)-601204 -----

(57) Abstract :

Stress plays an integral role in influencing one's decision-making capability, attention span, learning, and problem-solving capacity. Stress detection and modeling have been active areas of research in the fields of psychology and computer science in recent times. Psychologists quantify stress using affective states, which is the experience of feeling the underlying emotional state . Most of the work in classifying human stress was achieved using user- dependent models, incapable of generalizing to a new user. This causes new user to spend a significant amount of their time in training the model to predict their affective states. There is an urgent need to treat basic mental health problems that prevail among children which may lead to complicated problems, if not treated at an early stage. Machine learning Techniques are currently well suited for analyzing medical data and diagnosing the problem. The attributes have been reduced by analyzing Features over the full attribute data set. The accuracy over the selected attribute set on various machine learning algorithms have been compared.

No. of Pages : 10 No. of Claims : 6