

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/01/2026

(21) Application No.202641000875 A

(43) Publication Date : 16/01/2026

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE-ENABLED SMART WEARABLE SYSTEM AND METHOD FOR REAL-TIME WOMEN SAFETY MONITORING, THREAT DETECTION, AND EMERGENCY RESPONSE

(51) International classification	:G08B 21/02, G06N 20/00, A61B 5/00, A61B 5/0205, G08B 21/04	(71)Name of Applicant : 1)Dr. P. Rama Mohan Address of Applicant :Assistant Professor, Department of EEE, G. Narayanamma Institute of Technology and Science (A), Hyderabad, Telangana, India Telangana India 2)Prof. K. Babulu 3)Dr. G. Indira kishore 4)Dr. Kaliseti Purushotham Prasad 5)Dr. Ritesh Rastogi 6)Ms. E. Suneetha 7)Dr. Ravva Gurunadha 8)Dr. Mamidipaka Hema 9)Dr. Jami Venkata Suman
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. P. Rama Mohan 2)Prof. K. Babulu 3)Dr. G. Indira kishore 4)Dr. Kaliseti Purushotham Prasad 5)Dr. Ritesh Rastogi 6)Ms. E. Suneetha 7)Dr. Ravva Gurunadha 8)Dr. Mamidipaka Hema 9)Dr. Jami Venkata Suman
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:	
Filing Date	:01/01/1900	
(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	

(57) Abstract :

[040] An artificial intelligence-enabled smart wearable system and method for women's safety is disclosed, wherein the system continuously monitors physiological, behavioral, and environmental parameters using embedded sensors and analyzes the collected data through intelligent analytics to detect potential threats in real time. Personalized baseline profiles are established using machine learning models, and deviations from these profiles are classified into risk levels to autonomously initiate emergency responses, including alert transmission, real-time location sharing, and evidence recording. The invention provides a proactive, adaptive, and reliable safety solution capable of operating without manual intervention, thereby significantly improving personal security and emergency response effectiveness. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 15 No. of Claims : 9