

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511063783 A

(19) INDIA

(22) Date of filing of Application :04/07/2025

(43) Publication Date : 18/07/2025

(54) Title of the invention : A SMART WEARABLE DEVICE FOR DEVELOPER ERGONOMICS AND POSTURE MONITORING

(51) International classification :G06F0003010000, A61B0005000000, A61B0005110000, G06F0001160000, A61M0015000000

(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)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY

Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MAYANK DEEP KHARE

Address of Applicant :Department of Computer Science & Engineering (IOT), Noida Institute of Engineering & Technology, Greater Noida. Greater Noida -----

(57) Abstract :

The present invention discloses a smart wearable device (100) for developer ergonomics and posture monitoring. The device comprises posture sensors (111), wrist alignment detector (112), haptic feedback module (120), AI analytics engine (130), and cloud sync module (140). It monitors back and wrist posture during coding activities, generates real-time feedback, and suggests ergonomic improvements. The device integrates with IDEs, adapts to user behavior, and provides posture reports via a mobile application, improving developer wellness and reducing musculoskeletal disorders.

No. of Pages : 15 No. of Claims : 5