

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121031082 A

(19) INDIA

(22) Date of filing of Application :11/07/2021

(43) Publication Date : 06/08/2021

(54) Title of the invention : MACHINE LEARNING & IOT BASED SMART WEARABLE SYSTEM FOR AUTONOMOUS MANAGEMENT OF DIABETES MELLITUS

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(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(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	

(57) Abstract :

Continued monitoring enhances the quality of life for diabetic individuals. Utilizing a range of technology, including the IoT, embedded systems, communication technologies, artificial intelligence and intelligent devices, can help lower the healthcare system's economic expenses. Many communication technologies have enabled the provision of tailored and remote health services. We need to develop intelligent healthcare systems and grow the number of applications linked to the network to meet the needs of future smart eHealth applications. Therefore, to achieve some essential requirements such as high bandwidth and energy efficiency, the 5G network should include innovative health care applications. This paper provides an elegant architecture for monitoring diabetes patients using techniques for machine learning. Including smart gadgets, wearable sensors and cell phones, the architecture elements collect body measurements. The intelligent system collected the patient's data and performed a machine-learning data categorization to make a diagnosis. Multiple machine learning algorithms have evaluated the suggested prediction system.

No. of Pages : 28 No. of Claims : 4