

(54) Title of the invention : SMART HEALTHCARE SYSTEM FOR CHRONIC DISEASE PATIENTS USING IOT AND AI TECHNOLOGIES

<p>(51) International classification :A61B0005000000, G16H0010600000, G16H0040670000, G16H0050200000, A61B0005024000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA Filing Date :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :  <b>1)Dr.D.R.Krithika, Vels Institute of Science, Technology and Advanced Studies</b>  Address of Applicant :Assistant Professor, Department of Computer Applications School of Computing Sciences Vels Institute of Science, Technology and Advanced Studies, Velan Nagar, P.V. Vaithiyalingam Road, Pallavaram, Chennai, Tamil Nadu 600117 Chennai -----</p> <p><b>2)Dr.A.Vidhyalakshmi, Agurchand Manmull Jain College</b>  Address of Applicant :Assistant Professor, Department of Computer Science Agurchand Manmull Jain College, Chennai-600061, Chennai -----</p> <p><b>3)Dr.A.Ramya, Sri Subramaniya Swamy Govt. Arts College</b>  Address of Applicant :Guest Lecturer, Dept. Of Computer Science Sri Subramaniya Swamy Govt. Arts College, Tiruttani-631209 Tiruttani -----</p> <p><b>4)Dr.A.Ambeth Raja, Thiruthangal Nadar College</b>  Address of Applicant :Head &amp; Associate Professor, Department of Computer Science, Thiruthangal Nadar College, Selavayal, Chennai 51 Chennai -----</p> <p><b>5)Dr.A.Anthonisan, Hindustan Institute of Technology and Science</b>  Address of Applicant :Professor and Deputy Registrar, School of Computing Sciences, Hindustan Institute of Technology and Science, No-1, Rajiv Gandhi Salai, Padur, Chennai – 603 103, Chennai -----</p> <p><b>6)Dr.P.Suganya, Dwaraka Doss Goverdhan Doss Vaishnav College</b>  Address of Applicant :Assistant Professor &amp; Head, Dwaraka Doss Goverdhan Doss Vaishnav College, Department of Computer Science (UG &amp; PG), NO.833, E.V.R. Periyar High Road, SBI Officers Colony, Arumbakkam, Chennai, Tamil Nadu 600106. Chennai -----</p> <p><b>7)Dr T.A.Sangeetha, Kongu Arts and Science College</b>  Address of Applicant :Associate Professor and Head, Department of Computer Applications, Kongu Arts and Science College (Autonomous) Erode- 638107 Erode -----</p> <p><b>8)Mrs.V.Anitha Moses, Panimalar Engineering College</b>  Address of Applicant :Professor, Department of Computer Science and Engineering, Panimalar Engineering College, Nazerthpettai,Poonamallee,Chennai-600123 Chennai -----</p> <p><b>9)Dr.SK.Piramu Preethika, Vels institute of Science , Technology and Advanced Studies</b>  Address of Applicant :Assistant Professor, Department of Information Technology, Vels institute of Science , Technology and Advanced Studies, Pallavaram, Chennai-600117 Tamilnadu Chennai -----</p> <p><b>10)Dr.Attada Venkata Ramana, GMR Institute of Technology</b>  Address of Applicant :Professor &amp; Head, Department of CSE, GMR Institute of Technology, Rajam - 532127 Andhra Pradesh Rajam -----</p>
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(57) Abstract :  
The system and technique for monitoring and controlling chronic illnesses through the use of machine learning and Internet of Things (IoT) technologies are the subject of the current invention. Patients with chronic conditions can provide health data to the system via mobile apps and wearable sensors. The information is sent to a cloud-based platform, where machine learning techniques are used to store and process the data. The system allows medical practitioners to monitor and connect with patients remotely, displays health data, and offers individualized recommendations for managing diseases. The idea seeks to lower healthcare expenses related to managing chronic diseases, decrease hospitalizations, and enhance patient outcomes. The system and approach for monitoring and controlling chronic illnesses through the use of machine learning and Internet of Things (IoT) technologies are the subject of this patent application. Patients with chronic conditions can provide health data to the system via mobile apps and wearable sensors. The information is sent to a cloud-based platform, where machine learning techniques are used to store and process the data. The system allows medical practitioners to monitor and connect with patients remotely, displays health data, and offers individualized recommendations for managing diseases. The idea seeks to lower healthcare expenses related to managing chronic diseases, decrease hospitalizations, and enhance patient outcomes. The current invention's system and method track and manage chronic diseases in real-time by leveraging IoT and machine learning technology. Patients' vital signs, activity levels, and other pertinent health indicators are among the health data that are gathered via wearable sensors and smartphone apps. This information is sent to a cloud-based platform, which analyzes it with machine learning algorithms and generates individualised illness management suggestions.

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