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(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr B Suganthi
(33) Name of priority country	:NA	2)Dr.Md Sirajul Huque
(86) International Application No	:	3)S.Samundeshwari
Filing Date	:01/01/1900	4)Kavitha G
(87) International Publication No	: NA	5)M.Mohamed Abubakkar Siddique
(61) Patent of Addition to Application Number	:NA	6)A Sumaiya
Filing Date	:NA	7)A.Ramyasri
(62) Divisional to Application Number	:NA	8)Dr. Sri Laxmi K
Filing Date	:NA	9)Prajna K B
		10)P.V.Hemavathi
		11)Ramireddy Siva
		12)Dr Aravinth Vijay Jesuraj S

(57) Abstract :

IoT-Enabled Machine Learning Framework for Real-Time Cardiac Anomaly Prediction and Emergency Alerting is the proposed invention. The proposed invention integrates wearable biomedical sensors with IoT connectivity to continuously collect cardiac physiological signals such as ECG and heart rate data. Advanced machine learning and deep learning algorithms analyze the real-time data to detect abnormal cardiac patterns with high accuracy and minimal latency using edge and cloud computing. Upon identification of a critical cardiac anomaly, the system automatically generates emergency alerts and transmits them to patients, caregivers, and medical professionals along with essential health information. The framework also incorporates secure data transmission and privacy-preserving mechanisms, enabling reliable, scalable, and intelligent remote cardiac monitoring for proactive healthcare and timely emergency response.

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