

Approval for Patent Application Submission

1. Title of Invention: Sentinel Health Assist

2. Details of the First Inventor

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4. Brief abstract of invention:

Sentinel Health Assist is an advanced health monitoring system that integrates predictive analytics for both physical health and mental well-being. It leverages a sophisticated sensor array and machine learning algorithms to monitor physiological parameters and behaviors, providing proactive alerts and personalized recommendations to optimize overall health and wellness.

5. Novel features of the invention:

Sentinel Health Assist introduces several novel features that distinguish it in the realm of health monitoring systems. It employs an integrated sensor array to monitor a wide range of physiological parameters, such as heart rate, blood pressure, body temperature, and oxygen saturation, alongside behavioral indicators like aggression through home-installed cameras. Advanced machine learning and deep learning algorithms, including Random Forest, Naïve Bayes, K-Nearest Neighbor, Convolutional Neural Networks, and Generative Adversarial Networks, enable real-time analysis of this data, identifying complex patterns indicative of potential health and mental health risks. Personalized alerts and recommendations are provided to users, encouraging proactive health measures like hydration, social interaction, seeking medical attention, and physical activity. Additionally, the system enhances user support by notifying pre-registered family members and friends about the user's health status, facilitating timely assistance and comprehensive well-being management.

I, hereby declare that I am the First inventor of the invention described herein and this has not been patented / published earlier.

Inventor

Approval by

Department Coordinator

Head of the Department