Patent Search

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Abstract:

The present invention relates to provide a fog and cloud computing based IOT healthcare data analytics framework. It harnesses the synergy of fog and cloud compu address healthcare data analytics challenges. Fog computing, decentralizing computation, reduces latency, while cloud computing offers scalability. This integration t healthcare data analytics, enabling real-time insights from IoT devices. Fog nodes near data sources enhance processing proximity, improving clinical decisions. The f dynamically allocates tasks between fog nodes and cloud servers based on data factors. Privacy is upheld through advanced encryption, ensuring data security durin transmission. Real-time predictive analytics aid timely interventions. The hybrid fog-cloud approach optimizes data handling, fostering cost-efficient, secure, and tran healthcare data analytics. The present invention bridges real-time needs and computational power, shaping a future of practical, data-driven healthcare.

Complete Specification

Description:Technical field of invention:

The present invention relates to provide a fog and cloud computing based IOT healthcare data analytics framework.

Background:

Introducing, an innovative fog and cloud computing-based IoT healthcare data analytics framework, a paradigm shift in medical data management. This cutting-edg framework seamlessly merges fog computing's proximity benefits with cloud computing's expansive power. It empowers healthcare providers to harness real-time from interconnected medical devices, ensuring instant critical insights at the point of care.

Unlike conventional approaches, this framework optimizes resource utilization, guaranteeing swift processing and reduced latency for life-saving decisions.

By intelligently distributing computation between fog nodes and the cloud, it minimizes data transmission overhead, preserving patient privacy and network bandw

This novel solution revolutionizes healthcare analytics, offering timely diagnoses, personalized treatments, and improved patient outcomes. As an avant-garde fusic

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