

AI-Driven IoT based Decision Making System: KSK Approach

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Abstract: *The proliferation of data brought about by the Internet of Things (IoT) has revolutionized a number of industries, including manufacturing and healthcare. However, raw data is insufficient on its own. The true promise of the Internet of Things lies in its capacity to proactively address issues and streamline procedures through astute decision-making. For data analysis and decision-making, traditional Internet of Things systems typically need to rely on centralized cloud computing. This could lead to the introduction of latency, bandwidth limitations, and security issues, especially in applications that need real-time responses. This is where artificial intelligence (AI) enters the picture, creating a synergistic mix that could lead to a future full of efficient and autonomous systems. In contrast, the AI-powered Internet of Things allows edge devices to process data locally, allowing for faster and more accurate decision-making. Consider a smart factory that has sensors installed to keep an eye on the condition of the machines there. To identify potential tool failures, an artificial intelligence system integrated into the Internet of Things device may examine temperature readings, vibration patterns, and other relevant data. For analytical reasons, this is an alternative to transferring all of the sensor data to the cloud. By using this preventative approach, it is possible to perform the right maintenance at the right time, preventing expensive downtime and increasing overall operational efficiency. The integration of artificial intelligence into Internet of Things (IoT) devices may yield a number of benefits, including increased efficiency, better safety and security, lower costs, and personalized experiences.*

Keywords: Artificial Intelligence, AIoT, KSK(Kutubuddin S Kazi) Approach, Decision Making Systems, IoT, KK (Kutubuddin Kazi) Approach

