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Analysis of the Requirement and Artificial Intelligence-based Resource Management System in Cloud

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Abstract:
Artificial Intelligence (AI) approaches, such as the big data, mobile computing, and Internet of Things (IoT) have become more common in the computer science area in recent years. It is critical to properly manage resources in order to maintain service quality, service level agreements, and the system's overall availability. AI may be used to address the needs of cloud resource management, and this study examines and evaluates several approaches. Fog computing systems, intelligent cloud computing systems and edge-cloud systems are all types of AI-based cloud resource management systems that have been reviewed in this contribution. In this research, an intelligent resource management method that controls mobile resources by monitoring device states and projecting their future stability is proposed. We look at the possibility of using our suggested resource management system to a variety of cloud-based platforms.

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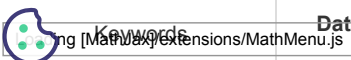
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I. Introduction

Just like satellite uplinks, and radio communication, intelligent end gadgets have rapidly evolved into wireless communication systems. From the first evolution of cellular communications technologies, which appeared in the 1980s, to the fifth progeny of mobile communications technologies, wireless communication technology can now provide not only general voice communications or simple data offerings, but also enhancing Modern life. There has been a shift towards greater data rates and more dependable communications protocols with the advent of 4th Generation (4G) wireless connectivity [1]. In response to the increased demand for data services, microwave compatibility and the growth of wireless transmission standards have emerged. It is, however, becoming more challenging to sustain the fast-expanding data rates and wearable technology in the present 4GLTE cellular infrastructure due to the exponential growth in mobile broadband supply and consumption, as well as the introduction of new multimedia applications. There are several obstacles and difficulties associated with growing a wireless network's bandwidth by increasing the number and frequency of base station installations in the standard radio access network design.

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