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Role of Artificial Intelligence in Internet of Things (IoT) Framework

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ABSTRACT

The rapid proliferation of Internet of Things (IoT) devices has transformed the way we interact with our environment, offering unprecedented connectivity and automation. However, the pervasive integration of IoT devices also presents significant security challenges, as these devices collect, transmit, and process sensitive data critical to our personal lives and critical infrastructure. To mitigate these security concerns, there is a growing interest in harnessing the capabilities of Artificial Intelligence (AI) to enhance the security of IoT ecosystems. The integration of Artificial Intelligence (AI) into the realm of Internet of Things (IoT) has opened new horizons for enhancing security measures. This abstract delves into the burgeoning field of leveraging AI for IoT security. As IoT continues to permeate various domains of daily life, the associated security challenges have become increasingly intricate. Traditional security approaches often fall short in addressing the dynamic and pervasive nature of IoT environments.