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(57) Abstract :
Disclosed herein is a system of autonomous agents for smart resource allocation in IoT comprises a network of autonomous agents configured to independently analyze and monitor resource usage and availability within an IoT environment. The system includes a decision-making module for evaluating resource needs, optimizing allocation strategies, and predicting future resource demands based on historical data and real-time inputs. The system also includes a communication framework enabling the autonomous agents to exchange information and collaborate with one another. The system also includes a central coordination unit configured to oversee the operations of the network of autonomous agents. The system also includes a feedback mechanism to assess the effectiveness of resource allocation decisions.

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