Agent Based Push Mechanism

ABSTRACT

An agent-based push mechanism is a dynamic system that uses intelligent software agents to deliver relevant and timely information to users proactively. Unlike pull-based systems, where users must request information, the push mechanism anticipates user needs based on predefined criteria, user behavior, or real-time context. This approach enhances efficiency by reducing the user's effort in searching and retrieving information. In such a system, agents act as intermediaries that monitor data sources, filter content, and deliver it to users. These agents are equipped with adaptive learning capabilities, enabling them to refine their recommendations over time based on user feedback or evolving preferences. Additionally, they leverage technologies like machine learning, natural language processing, and user profiling to understand and predict user needs effectively.

Applications of agent-based push mechanisms span various domains, including personalized content delivery in e-commerce, real-time updates in financial markets, and proactive alerts in healthcare. The system also supports distributed environments by enabling communication between multiple agents for coordinated decision-making. By automating information dissemination and tailoring content to individual needs, agent-based push mechanisms enhance user experience, optimize resource utilization, and support timely decision-making in a rapidly evolving digital landscape.

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