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(57) Abstract :
The invention discloses an AI-powered system for smart hospital patient flow management comprising an AI Processing Unit (101), Patient Admission Module (102), Bed Allocation System (103), IoT Monitoring Network (104), Discharge Forecasting Module (105), Departmental Workflow Integrator (106), and Communication Interface (108). The system optimizes admissions, transfers, and discharges by leveraging predictive analytics, IoT data, and intelligent scheduling. Experimental validation confirms reduced waiting times, improved hospital throughput, and enhanced patient satisfaction. The invention ensures scalability, efficiency, and compliance, making it suitable for hospitals of all sizes.

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