

HealthNav

Emergency department, Health service, Medical decisions, Healthcare navigation

University of Pittsburgh researchers have developed an advanced Al-driven system tailored to transform emergency department triage by swiftly analyzing patient data to prioritize care delivery.

HealthNav serves as a real-time decision aid for healthcare providers, ensuring that patients with the most critical needs are attended to promptly. By seamlessly integrating with existing medical record systems, HealthNav aims to streamline patient flow, enhance resource allocation, and ultimately elevate patient outcomes and satisfaction.

Applications

Symptom Checker for Patients: Before arriving at the hospital, patients can use HealthNav to input their symptoms and receive a preliminary urgency score, helping them decide whether to seek urgent care or schedule a regular doctor's appointment. Automated Triage: HealthNav can automatically assess patient symptoms upon entry to the emergency department to prioritize care based on severity and need. Resource Allocation: The tool can assist hospital administrators in predicting patient flow and allocating resources like staff, rooms, and medical equipment more efficiently. Predictive Analytics: By analyzing trends and data, HealthNav can predict peak times for certain illnesses or injuries, allowing hospitals to prepare in advance for increased demand. Decision Support for Clinicians: HealthNav can provide doctors and nurses with a quick summary of patient history and potential diagnoses to aid in clinical decision-making.

Advantages

HealthNav's main advantage is its ability to significantly reduce wait times and improve the accuracy of patient triage in emergency departments by leveraging real-time AI analytics to ensure critical resources are allocated where they are needed most.

Development Status

HealthNav has successfully completed its predictive modeling tests using a substantial dataset from a nationally known emergency department, demonstrating its potential effectiveness. The team is now poised to advance into the next phase of tool development, focusing on refining features and preparing for real-world application and testing.

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Advancing the system development for testing in a clinical setting

IP Status:

Software/Copyright

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Research Profile

ID #5088