**PATIENT FLOW AUTOMATION USING MACHINE LEARNING FOR A BETTER PERSONALIZED EXPERIENCE**

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**ABSTRACT**

Poor patient flow hits hospital Emergency Departments and Operation theaters hard. It can lead to bad patient outcomes because of poor quality of care, overcrowding, disorganized handoffs, increased costs, decreased capacity, frustration and more.

Artificial intelligence-based software platform that solves operational challenges, including those related to emergency rooms and patient safety. This Automated platform prioritizes patient illness/injury, tracks hospital waiting times and can even chart the fastest ambulance routes. Managing operations requires the ability to identify and predict issues, whether in the past, present, or future, before they occur. To do this, you need a variety of technologies, including integration with **Electronic Health Record**s and other systems, sophisticated data analytics, AI and machine learning for real-time identification and prediction, and situational awareness capabilities for real-time visibility at multiple organizational levels.AI-based algorithms automate manual processes such as predicting estimated date of delivery and discharge barriers for inpatient units, and surges in the Emergency department.

* Uses machine learning to predicts crowding events hours in advance, and then automatically increase team members across the hospital to create a virtual group.
* ML models to predict issues before they occur and power real-time orchestration workflows to address or avoid the issues.

**Platform**

* Technology: Django,scikit-learn
* Programing language: Python
* Database: MySQL