- Here is a one page summary on AURA in 300 words:
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- AURA is a project that aims to develop an Ambulance Utilization and Routing Application that can help save lives in emergency situations[1][1]. The project is led by Om Nirmalkar, a class 8th student of Krishna Public School, Dunda, Raipur, Chhattisgarh. He can be contacted at 10457om@kpsraipur.com[2][2].
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- The main objectives of AURA are:
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- - To optimize the allocation and dispatch of ambulances based on the location, availability, and severity of the patients.
- - To provide real-time traffic and road information to the ambulance drivers and suggest the best route to reach the destination.
- - To enable communication and coordination between the ambulance, the hospital, and the patient's family.
- - To collect and analyze data on the ambulance performance and the health outcomes of the patients.
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- The project is based on the following technologies:
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- - GPS and GIS for locating and tracking the ambulances and the patients.
- - Machine learning and optimization algorithms for assigning and routing the ambulances.
- - Cloud computing and IoT for storing and processing the data and enabling the communication.
- - Mobile and web applications for providing the user interface and the feedback.
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- The project is expected to have the following benefits:
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- - To reduce the response time and the travel time of the ambulances and improve the survival rate of the patients.
- - To increase the efficiency and the utilization of the ambulances and reduce the operational costs.
- - To enhance the quality and the accessibility of the emergency health care services and improve the patient satisfaction.
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