SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)

DEPARTMENT OF INFORMATION TECHNOLOGY

Date:

"FloodGuard: Safeguarding Communities Against Flooding"

Abstract:

Natural disasters such as earthquakes, floods, drought, cyclones and tsunami are the various threats to human life and property. Floods are among the most recurring natural disasters and damaging natural disasters, causing huge destruction to infrastructure, leading to various losses.

The project "FloodGuard: Safeguarding Communities Against Flooding" utilizes a combination of climatic data and geographic information to predict and prevent users from flood events. This project focuses on the people's problems due to floods, including loss of human life, damage to property, destruction of crops, loss of livestock, non-functioning of infrastructure facilities and deterioration of health conditions owing to waterborne diseases. This project proposes the development of a flood prediction and management system. The system will integrate various data sources, including real-time weather data content to predict flood events with a certain accuracy level.

According to research, the major point is that most people don't know when the floods will occur to take the basic precautions to overcome huge infrastructure loss and human loss. As we know, stopping of natural disaster occurrences can't be done, but we can prevent and predict whether a flood may occur or not, so people can overcome the problems that will occur during a flood.

FloodGuard aims to provide an effective and efficient solution for flood detection and prevention. The ultimate goal of this project is to enhance flood preparedness and response, reducing the potential damage and saving lives.

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Domain of the CSProject: Natural Disaster Management

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