



# Disaster Coordination System

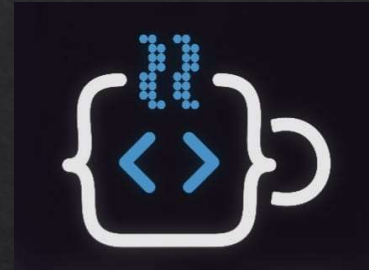


Project Name :- Disaster Coordination System

Team Name :- HackByte Warriors

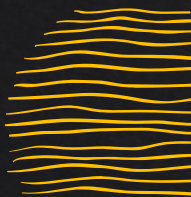
Team Leader :- Surya Pratap Sharma

Team Members :- Kritagya Yadav  
:- Rahul Kumar



**Problem Statement :- During disasters, lack of coordination and delayed communication between agencies lead to ineffective response and increased casualties.**

**Aim :- “Building a Smarter , Faster Response Network”**







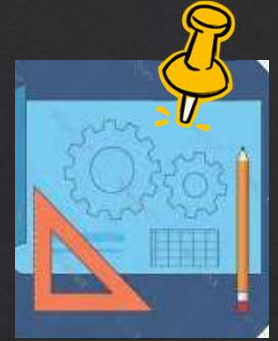
# IDEA



An intelligent system that uses AI to predict, coordinate, and manage disaster response efficiently. It helps authorities, rescue teams, and civilians by providing real-time alerts, resource allocation, and communication tools to reduce damage and save lives.



# Prototype



**Dashboard:** Displays disaster status, alerts, and resource tracking.

**AI Bot:** Automates emergency response suggestions .

**GIS Mapping:** Real-time location-based coordination.

# Tech Stack

Frontend : HTML, CSS, JavaScript, React.js.

Backend : Node.js, RESTful APIs.

Database : Firebase.

Other Tools & Services : Google Maps API, GitHub.



JavaScript



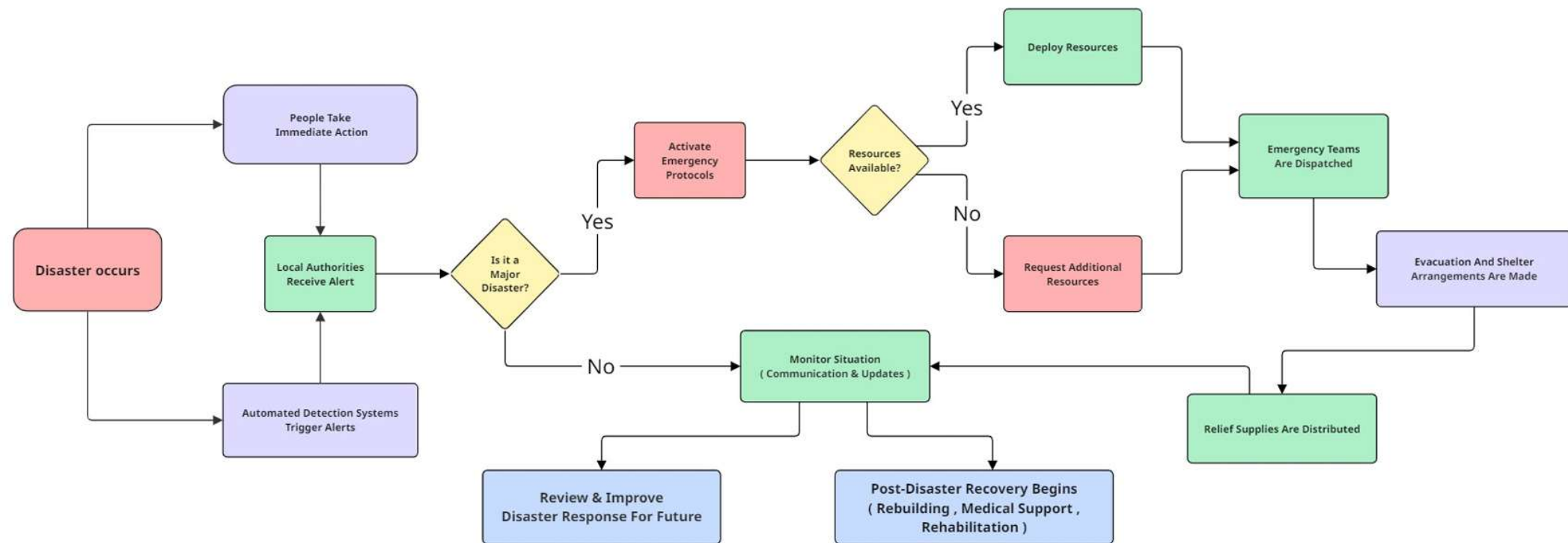


# Approach Details

1. **Data Collection & Prediction** – AI analyzes weather, social media, and historical data to detect disaster risks.
2. **Real-Time Coordination** – Connects emergency services, volunteers, and affected communities for quick response.
3. **Resource Optimization** – Smart allocation of rescue teams, medical aid, and supplies.
4. **User-Friendly Interface** – A mobile & web app for alerts, SOS, and live updates.
5. **Machine Learning & Automation** – AI-driven insights for faster decision-making.



# Process Flowchart



# Impact & Benefits



**Faster Help** – AI quickly detects disasters and alerts people.

**Better Resource Use** – Sends rescue teams and supplies where needed most.

**Real-Time Updates** – Helps authorities make quick decisions.

**Easy to Use** – Simple website for everyone, from citizens to rescue teams.

**Saves Lives** – Early warnings and quick action reduce harm.





## Future Scope :



- ➔ Enhancing AI predictions with IoT sensors
- ➔ Expanding GIS mapping for better coverage Improving automated rescue coordination



◆ THANK YOU ◆

