**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**TITLE:**

**Design of an Emergency Response and Disaster Relief Chatbot for Crisis Management**

**Team Number: Section 2B**

**Team Members:**

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**PROBLEM STATEMENT:**

During a crisis, having up-to-date information is essential to ensuring people's safety or, at the very least, minimizing harm. Typically, traditional forms of communication are often overwhelmed or unable to offer timely and accurate guidance, leaving people feeling unprepared and uncertain about how to react. A greatly improved option: A Dependable, Available, Expandable method for delivering immediate information and guidance — as well as counselling focused on the mind-set of openness and orientation (suitable for various emergencies. This kind of chatbot can greatly enhance disaster response efforts by offering quick, customized help to save lives.

**PROJECT IMPLEMENTATION OVERVIEW:**

The development of the Emergency Response and Disaster Relief Chatbot will be spread over several core stages. This project will mainly focus on gathering requirements, to understand user needs and emergency response protocols. In the next design phase, our goal is to create a systemic framework that combines existing data sources —science and weather updates once integrated—and an interface accessible through a myriad of platforms. A prototype will be developed and incorporated with essential features as such real-time alerts, emergency directions along with support websites during development phase. Extensive testing will ensure that chatbot functionality is robust and can handle scenarios even at peak load, more so during emergency situations. From there the chatbot enters testing so they can deploy to multiple platforms such as web, mobile, and messaging platforms.