**Disaster Tweets Analysis Using LSTM**

**Abstract:**

During disasters, social media platforms like Twitter become vital for sharing real-time information. Analyzing tweets can help authorities prioritize resources and respond effectively.

This project uses Long Short-Term Memory (LSTM) networks to classify tweets as disaster-related or non-disaster-related. By processing text data, the system identifies relevant patterns and keywords associated with disasters. The model achieves high accuracy and can operate in real-time, supporting disaster response teams in decision-making and resource allocation.

**Key Features:**

1. **LSTM Networks:** Captures temporal dependencies in textual data.
2. **Real-Time Analysis:** Classifies disaster-related tweets dynamically.
3. Applications: Enhances emergency response planning and resource allocation.
4. **High Precision:** Accurately identifies critical information from noisy data.