

## **Case Study Title: Forecasting Flood Risks**

### **AI for Disaster Preparedness**

The Philippines is one of the most disaster prone countries in the world. From typhoons and floods to earthquakes, millions of Filipinos are affected each year. Despite this reality, many communities continue to struggle with limited real-time alerts and slow disaster response.

To address this gap, this case challenges participants to design a web app prototype that uses AI/ML to help communities visualize flood risks, understand contributing factors, and prepare for potential disaster.

#### **Your Mission:**

Develop a prototype that demonstrates how AI/ML enhance flood prediction and disaster preparedness. Your prototype should enable users to:

- Access clear, actionable preparedness information
- Empower Users and Communities through AI/ML
- Visualize Disaster data

Don't be afraid to start your journey through AI/ML, take this chance to develop your skills and shine. For more information regarding the event, please refer to the uploaded guidelines. Together, let's create a change that could help others and save lives!

Sources: <https://oxfordinsights.com/insights/ai-for-climate-change-managing-floods-using-ai-early-warning-systems/>