

CHAPTER-10

10.1 CONCLUSION:

The Rising Waters project presents an intelligent and data-driven approach to flood prediction using machine learning techniques. By analysing environmental factors such as rainfall, river levels, humidity, and temperature, the system can predict flood risk levels with improved accuracy and speed.

The proposed solution integrates data pre-processing, feature engineering, model training, and deployment through a Flask-based web application. This ensures real-time prediction capability and user-friendly access for both authorities and individuals.

The system enhances disaster preparedness by providing early warnings, supporting informed decision-making, and reducing potential loss of life and property. Although the model depends on data quality and continuous updates, it offers a scalable and efficient solution for modern flood risk management.

In conclusion, the project demonstrates how machine learning can be effectively applied to environmental disaster prediction, contributing to smarter and more proactive flood management systems.

