

Data Collection and Preprocessing Phase

Date	29 September 2024
Team ID	LTVIP2024TMID24876
Project Title	Rising Waters: A Machine Learning Approach to Flood Prediction
Maximum Marks	2 Marks

Data Collection Plan & Raw Data Sources Identification :

To create an effective flood prediction system, the data collection plan focuses on gathering comprehensive historical weather data, including rainfall, temperature, and river flow levels, from various reliable sources such as meteorological stations, satellite observations, and hydrological surveys. Identifying and integrating raw data sources ensures that the machine learning model is trained on accurate, diverse, and up-to-date information. This will enable the model to provide timely and precise flood predictions, crucial for risk management and mitigation strategies.

Data Collection Plan

Section	Description
Project Overview	"Rising Waters" uses machine learning on historical weather data to forecast floods, providing timely alerts and risk mitigation.
Data Collection Plan	The data will be searched from the kaggle and other websites and India Flood databased on recent data.
Raw Data Sources Identified	The dataset has been collected from kaggle and from India Flood data website.

Raw Data Sources

Source Name	Description	Location/URL	Format	Size	Access Permissions
Kaggle dataset	This dataset also contains the same common values as	https://www.kaggle.com/datasets/arbethi/rainfall-dataset	xlsx	531.02 kB	Public