

Project Design Phase-II

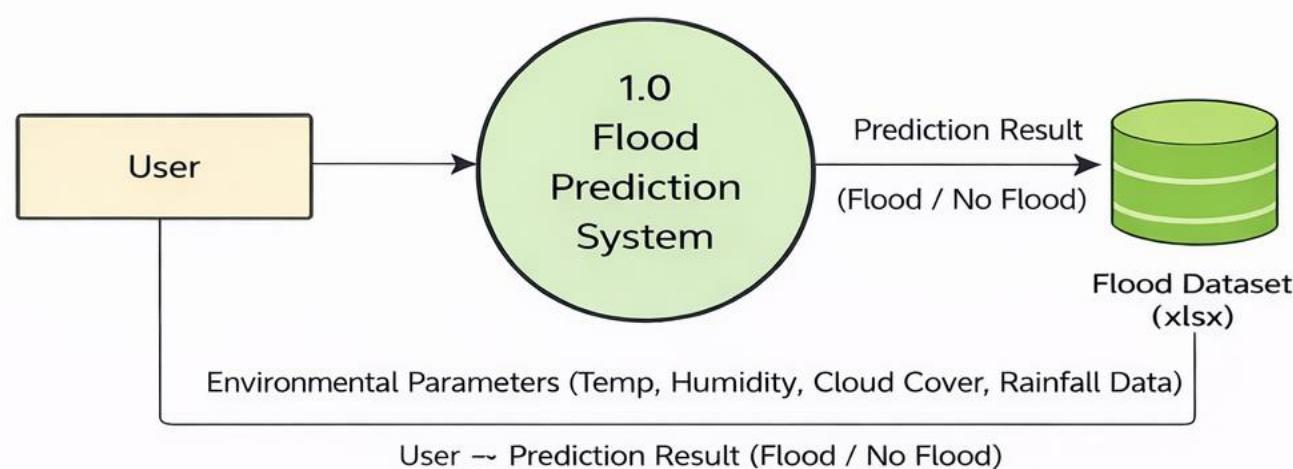
Data Flow Diagram & User Stories

Date	16 February 2026
Team ID	LTVIP2026TMIDS74755
Project Name	Rising Waters: A Machine Learning Approach To Flood Prediction
Maximum Marks	4 Marks

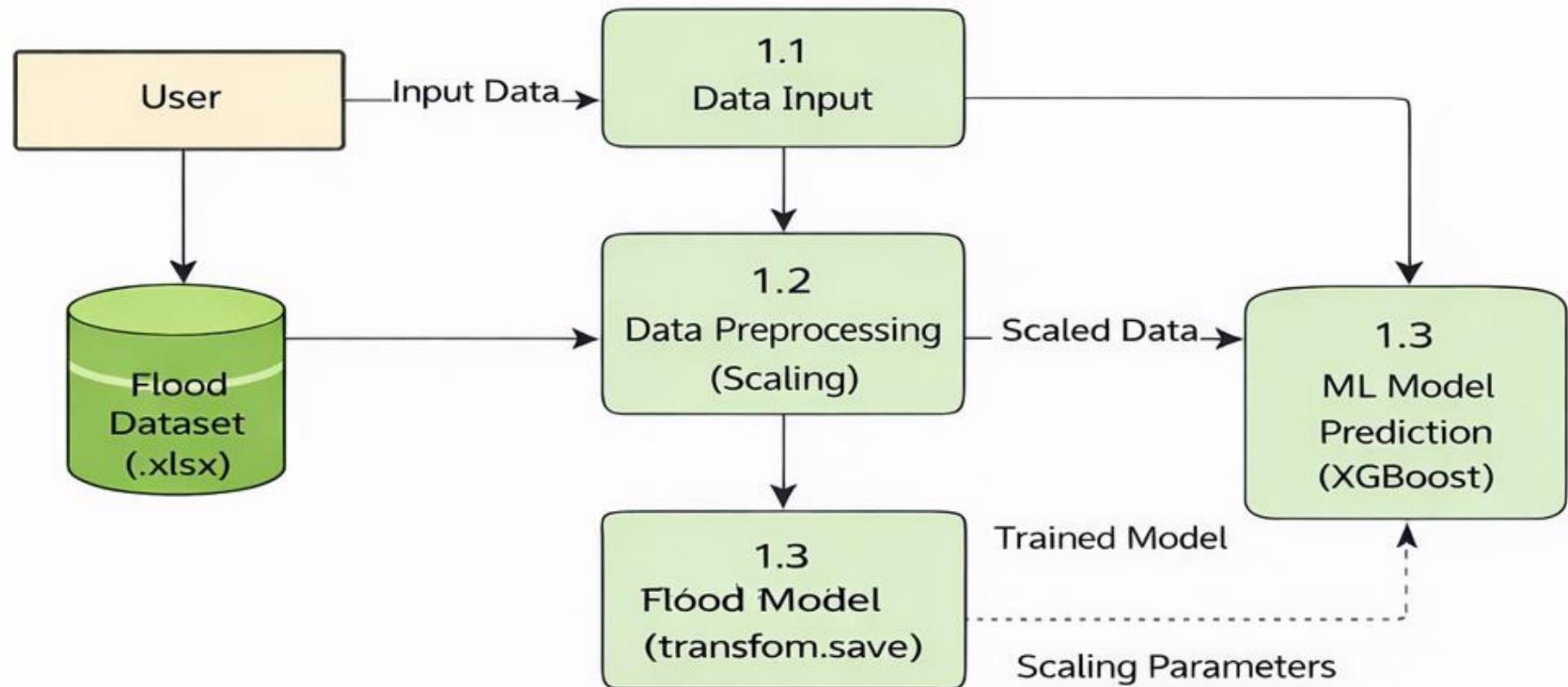
Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

DFD Level 0 (Context Level)



DFD Level 1 (Detailed Level)



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Web User)	Access Application	USN-1	As a user, I can access the flood prediction website	Website loads successfully	High	Sprint-1
Customer (Web User)	Enter Input Data	USN-2	As a user, I can enter environmental parameters for prediction	Input fields accept valid values	High	Sprint-1
Customer (Web User)	Get Prediction	USN-3	As a user, I can receive flood prediction result	System displays Flood / No Flood	High	Sprint-1
Customer (Web User)	Input Validation	USN-4	As a user, I should not submit empty or invalid inputs	Error message shown for invalid input	Medium	Sprint-1
Administrator	Model Training	USN-5	As an admin, I can train and update the ML model	Model saved successfully as floods.save	High	Sprint-1
Administrator	Model Evaluation	USN-6	As an admin, I can evaluate model accuracy	Accuracy metrics displayed	Medium	Sprint-1