

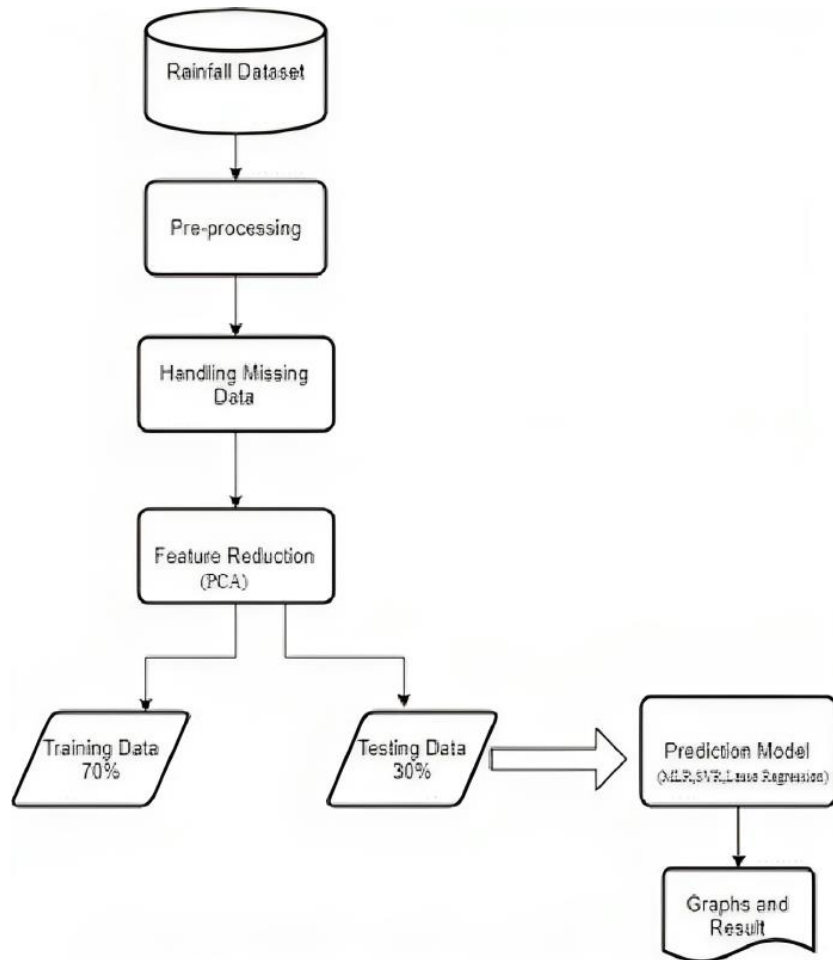
**Project Design Phase-II**  
**Data Flow Diagram & User Stories**

Date	20 November 2023
Team ID	591569
Project Name	Machine Learning Approach for Predicting the Rainfall
Maximum Marks	4 Marks

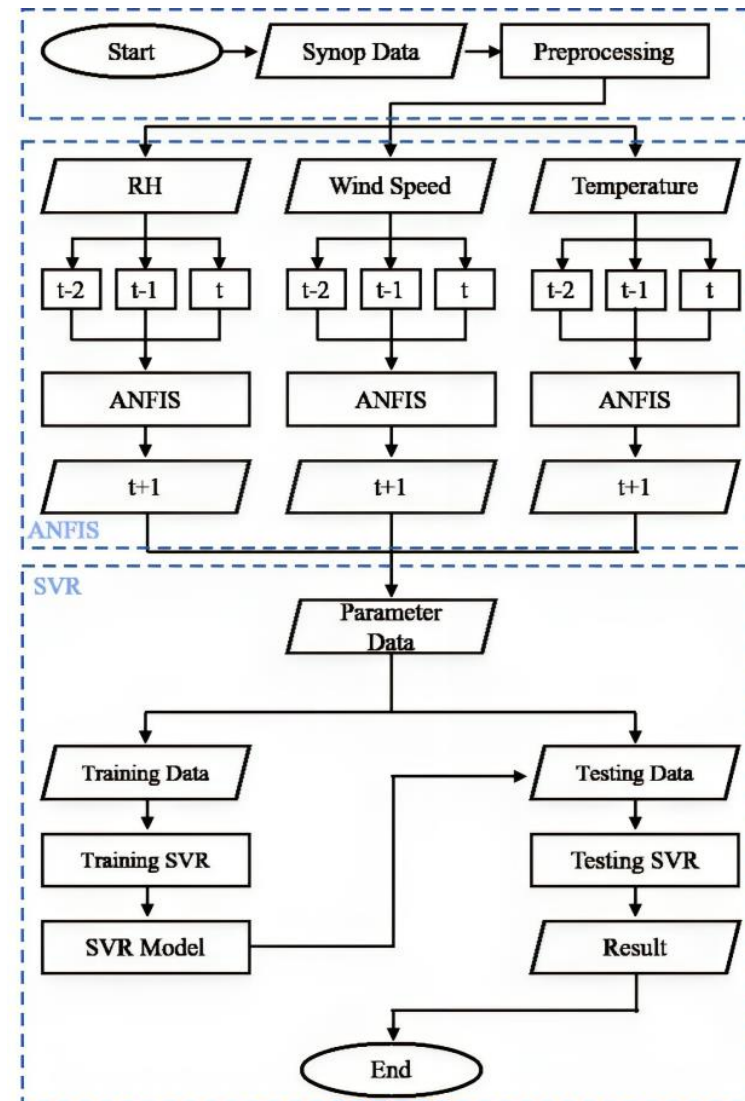
**Data Flow Diagrams:**

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. The simplified DFD illustrates the flow of data from the initial collection to the final output, including the training of the machine learning model, real-time predictions, user interaction, and system monitoring.

Example: [\(Simplified\)](#)



Example: DFD Level 0 (Industry Standard)



## 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
Meteorological Researcher	Access and download	USN-1	As a meteorological researcher, I want to access and download historical rainfall datasets across India for analysis and model training.	Want to access and download historical rainfall datasets	Low	Sprint-1
Agriculture Expert	Receive accurate and timely rainfall predictions	USN-2	As an agriculture expert, I want to receive accurate and timely rainfall predictions for my region to optimize crop planning and irrigation schedules.	I want to receive accurate and timely rainfall predictions for my region	High	Sprint-1
Disaster Management Official	Real-time rainfall forecasts	USN-3	As a disaster management official, I want real-time rainfall forecasts to enhance early warning systems and improve disaster preparedness.	I want real-time rainfall forecasts to enhance early warning systems	High	Sprint-2
Farmer	User-friendly dashboard	USN-4	As a farmer, I want a user-friendly dashboard that provides easy-to-understand visualizations of historical rainfall patterns and future forecasts for my farm location.	I want a user-friendly dashboard that provides easy-to-understand visualizations and future forecasts for my farm location.	Medium	Sprint-1
Government Official	Access to comprehensive rainfall predictions	USN-5	As a government official, I want access to comprehensive rainfall predictions to inform water resource management and infrastructure planning across different regions.	I want access to comprehensive rainfall predictions to inform water resource management and infrastructure planning across different regions.	High	Sprint-1