

Data Collection and Preprocessing Phase

Date	24 April 2024
Team ID	Team-738169
Project Title	Rainfall Prediction Using Machine Learning
Maximum Marks	2 Marks

Data Collection Plan & Raw Data Sources Identification Template

Elevate your data strategy with the Data Collection plan and the Raw Data Sources report, ensuring meticulous data curation and integrity for informed decision-making in every analysis and decision-making endeavor.

Data Collection Plan Template

Section	Description
Project Overview	The objective of this project is to develop a machine learning model that can accurately predict rainfall patterns based on historical weather data. This system aims to assist meteorologists, agricultural practitioners, and policymakers in making informed decisions related to water resource management, agriculture, and disaster preparedness.
Data Collection Plan	<ul style="list-style-type: none"> Obtain historical weather data from reliable sources such as meteorological agencies or weather stations. Include relevant features such as temperature, humidity, wind speed, pressure, and geographical location. Ensure data quality by cleaning and preprocessing to handle missing values and outliers.

Raw Data Sources Identified	<ul style="list-style-type: none"> • Meteorological Stations Data: Obtain raw data from meteorological stations located in the target region. • Satellite Imagery and Remote Sensing Data: Utilize satellite imagery and remote sensing data to complement meteorological station data. Satellite data can offer a broader spatial coverage, allowing for the analysis of rainfall patterns across larger areas.
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Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions
Dataset 1	The dataset is collected from meteorological stations and satellite observations over a specific geographic region (e.g., a country, a state/province, or a watershed). It covers historical weather data spanning several years, including daily or hourly measurements.	https://docs.google.com/spreadsheets/d/1RA2O00LZTeQyKImvnensAjp6LM4YzWI1Tz0SUG5-Ao/edit#gid=121883362	CSV	484 KB	Public