Data Collection and Preprocessing Phase

Date	15 March 2024
Team ID	SWTID1720113374
Project Title	Predicting Compressive Strength Of Concrete 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 machine learning project aims to predict the compressive strength of concrete based on various factors such as mix proportions, curing conditions, and age. The objective is to build a model that assists engineers and construction professionals in estimating concrete strength, optimizing mix designs, and ensuring structural integrity in construction projects.
Data Collection Plan	• Identify datasets related to concrete mix designs, curing conditions, and compressive strength measurements. • Prioritize datasets with comprehensive and detailed information on the factors affecting concrete strength.
Raw Data Sources Identified	The raw data source for this project includes the dataset obtained from

	UCI, a popular platform for data science repositories. The provided sample data represents a subset of the collected information, encompassing variables such as age, strength, and other cement-related details for machine learning analysis

Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions
UCI	Concrete Compressive Strength Data	https://archive.ics.uci.edu/dataset/165/concrete+compressive+strength	CSV	23 KB	Public