Data Collection and Preprocessing Phase

Date	8 July 2024
Team ID	SWTID1720116242
Project Title	Predicting Compressive Strength Of Concrete Using Machine Learning
Maximum Marks	2 Marks

Data Collection Plan & Raw Data Sources Identification Template

Enhance your data strategy with the Data Collection plan and the Raw Data Sources report, ensuring precise data curation and integrity to support well-informed decision-making across all analytical and strategic initiatives.

Data Collection Plan Template

Section	Description
Project Overview	This project focuses on developing a machine learning model to predict the compressive strength of concrete. It will utilize factors such as mix proportions, curing conditions, and age. The model aims to assist engineers and construction professionals in optimizing concrete mix designs and ensuring structural integrity in construction projects.
Data Collection Plan	• Identify datasets related to concrete mix designs, curing conditions, and measurements of compressive strength. Prioritize datasets that provide comprehensive and detailed information on the factors influencing concrete strength.
Raw Data Sources Identified	The primary source of raw data for this project is obtained from UCI, a prominent platform for data science repositories. The dataset contains a subset of collected information, including variables such as age, strength, and other relevant details about cement properties for analysis using machine learning techniques.

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