

Data Collection and Preprocessing Phase

Date	9 July 2024
Team ID	SWTID1720162737
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 compressive strength of concrete based on applicant information. Using a dataset with features such as cement, blast_furnace_slag, fly_ash, water, superplasticizer, coarse_aggregate, fine_aggregate, age, concrete_compressive_strength ,the objective is to build a model that accurately classifies, facilitating efficient and informed decision-making in the process.
Data Collection Plan	<ul style="list-style-type: none"> • Search for datasets related to concrete in internet. • Collect the datasets from the Construction companies, concrete material suppliers or research laboratories. • Prioritize datasets with Data Characteristics.

Raw Data Sources Identified	The raw data sources for this project include datasets obtained from Kaggle & UCI, the popular platforms for data science competitions and repositories. The provided sample data represents a subset of the collected information, encompassing variables such as cement, blast furnace slag, fly ash, water, superplasticizer, coarse aggregate, fine aggregate, age and concrete compressive strength, details for machine learning analysis .
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Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions
Kaggle Dataset	Data set contains attributes such as cement, blast furnace slag, fly ash, water, superplasticizer, coarse aggregate, fine aggregate, age and concrete compressive strength	https://www.kaggle.com/datasets/elikplim/concrete-compressive-strength-data-set	CSV	11 GB	Public
UCI	Data set contains attributes such as cement, blast furnace slag, fly ash, water, superplasticizer, coarse aggregate, fine aggregate, age and concrete	https://archive.ics.uci.edu/dataset/165/concrete+compressive+strength	Excel	32 GB	Private (with access)

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