PROJECT PROPOSAL

GROUP NUMBER : 16

GROUP MEMBERS:

1st member : Kratika Ghadge
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Organisation Name : MP-FITT

Project Topic : Concrete Strength Prediction Model

Introduction :

As we all know ,Concrete is the most important material in civil engineering. The concrete compressive strength is a highly nonlinear function of age and ingredients. These ingredients include cement, blast furnace slag, fly ash, water, super plasticizer, coarse aggregate, and fine aggregate .

Project Description:

Develop a predictive model for estimating the compressive strength of concrete, a crucial material in civil engineering. Concrete's compressive strength is influenced by various factors such as age and ingredients, including cement, blast furnace slag, fly ash, water, super plasticizer, coarse aggregate, and fine aggregate.

Project Goal :

The primary goal of the project is to build a robust predictive model capable of accurately determining the compressive strength of concrete based on its age and ingredient composition. By leveraging machine learning techniques, the model will provide engineers and construction professionals with a valuable tool for optimizing concrete mixtures and ensuring the structural integrity of buildings and infrastructure projects. Ultimately, the project aims to enhance the efficiency and reliability of concrete design and construction processes in the field of civil engineering.