

Project Initialization and Planning Phase

Date	12 July 2024
Team ID	SWTID1720171884
Project Name	Predicting Compressive Strength Of Concrete Using Machine Learning
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

Create a problem statement to understand your customer's point of view. The Customer Problem Statement template helps you focus on what matters to create experiences people will love. A well-articulated customer problem statement allows you and your team to find the ideal solution for your customers' challenges. Throughout the process, you'll also be able to empathize with your customers, which helps you better understand how they perceive your product or service.

I am	I'm trying to	But	Because	Which makes me feel
I am a civil engineer	accurately estimate the compressive strength based on various input parameters such as concrete mix proportions, curing conditions, and material properties.	existing methods primarily rely on time-consuming and costly laboratory tests, which are not suitable for real-time decision-making in construction projects.	it is not practically possible for traditional methods for rapid assessment and may not capture all influencing factors.	there is a critical need to reliable model that can accurately estimate the compressive strength based on various input parameters

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Civil Engineer	Build strong Buildings which can last more time to use.	We cannot build strong concrete structures.	We cannot estimate accurate composition of components mixture to strength concrete	There is a need for a solution to this problem to increase compressive strength of concrete mixture .