

IDEATION PHASE

Define The Problem

Date	01 May 2023
Team ID	NM2023TMID11143
Project Name	Intelligent Garbage classification using deep learning
Maximum marks	2 marks

PROBLEM STATEMENT

In many cities around the world, garbage management has become a major issue. Proper disposal of waste is a necessity to reduce pollution and maintain healthy environment. Garbage classification is a crucial step in waste management, as it helps in segregating recyclable waste from non-recyclable waste. However, manual classification of garbage is time-consuming, labour-intensive, and error-prone. This cleanliness in the environment. However, the process of waste segregation is often carried out manually, which can be tedious, time-consuming and prone to error. Moreover, improper segregation can lead to incorrect handling and treatment of waste material

There is a need for a technology that can quickly and accurately classify waste into different categories based on its composition. This will enable effective management of waste and its safe disposal.

Problem Statement (PS)	I am (customer)	I'm trying to	But	Because	Which makes me feel
PS1	a street cleaner	Sorting different type of garbage categories	It is difficult to analyze texture of that wastes	Some particles are damaged	confusion
PS2	a Forest officer	reduce soil pollution at environment	It takes more time to classify the materials	It has huge space so we unable to collect the all things easier	frustrated
PS3	a Drainage cleaner	to resolve water pollution at street canal to separate the garbage like organic wastes	No one voluntarily come forward do that work	It has high toxic level and hazardous for skin and eye .it will lead to diseases like Cholera, Polio , Diarrhoea,	awful

		,plastics.....		Typhoid	
PS4	a teacher	Teach my students to split garbages as Bio-Degradable and Non – Bio Degradable wastes	Some students are not interested to do that work	Students aren't look at real time recycling machinery so they doesn't believe	doubtful