**Project Design Phase-I**

**Proposed Solution Template**

|  |  |
| --- | --- |
| Date | 06 May 2023 |
| Team ID | NM2023TMID11419 |
| Project Name | IntelligentGarbage Classification Using Deep learning |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | The main problem is to be solved in garbage classification is accurate and efficient classification of various types of waste |
|  | Idea / Solution description | Data Collection,Data preprocessing,Model Selection,Testing and Refinement, are the solution to solve the garbage classification. |
|  | Novelty / Uniqueness | Multi modal fusion,Weakly supervised learning,Online and continual learning,are the uniqueness in garbage classification. |
|  | Social Impact / Customer Satisfaction | Accuracy and reliability: Customers expect the system to accurately classify different types of waste items.  Efficiency and speed: Customers value a garbage classification system that operates efficiently and provides quick results. |
|  | Business Model (Revenue Model) | Product Sales: Develop and sell the intelligent garbage classification system as a standalone product.  Data Monetization: Collect and anonymize the garbage classification data from various customers and aggregate it into a valuable dataset. |
|  | Scalability of the Solution | Data management: Efficient data management is essential for scalability.  Parallel processing: Exploit parallel processing techniques to distribute the computational load across multiple computing resources |