

## Data Collection and Preprocessing Phase

|               |   |
|---------------|---|
| Date          | 15 March 2024   |
| Team ID       | 739675  |
| Project Title | Cleantech: Transforming Waste Management With Transfer Learning |
| Maximum Marks | 2 Marks   |

### Data Collection Plan & Raw Data Sources Identification

#### Data Collection Plan

| Section              | Description  |
|----------------------|--|
| Project Overview     | Cleantech innovations are revolutionizing waste management by integrating advanced machine learning techniques, particularly transfer learning, to enhance efficiency and sustainability. Transfer learning leverages pre-trained models, enabling effective waste classification even with limited datasets |
| Data Collection Plan | To develop a transfer learning-based waste classification model, the data collection plan involves gathering a diverse dataset of labeled waste images across categories like plastic, metal, glass, paper, and organic waste.   |

## Raw Data Sources

| Source  |  |   |        |         | Access      |
|---|--|---|--------|---------|-------------|
| Name  | Description  | Location/URL  | Format | Size    | Permissions |
| Kaggle<br>Cleantech<br>Transforming<br>Waste<br>Management<br>Dataset | A dataset<br>containing<br>labelled<br>Transforming<br>waste<br>management<br>images<br>(e.g.,Plastic,<br>Municipal).. | <a href="https://www.kaggle.com/datasets">https://www.kaggle.com/datasets</a> | Image  | 2<br>GB | Public      |