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AI-Driven Waste Sorting & Garbage Classification Analytics

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Abstract: In today's rapidly growing urban environments, effective waste management has become a major challenge for cities and communities. Improper waste segregation leads to environmental pollution, inefficient recycling processes, and increased landfill usage. This project, titled "AI-Driven Waste Sorting & Garbage Classification Analytics," aims to improve waste management systems by using Artificial Intelligence (AI) and data analytics to automatically identify and classify different types of waste materials. The system collects waste images and related data from sources such as smart bins, cameras, or sensors. Using machine learning and deep learning techniques, particularly image classification models like Convolutional Neural Networks (CNN), the system analyzes waste items and categorizes them into different classes such as plastic, paper, metal, glass, organic waste, and non-recyclable waste. By accurately identifying waste types, the system enables automated waste segregation, which improves recycling efficiency and reduces manual sorting efforts. The analytics component of the system also provides insights into waste generation patterns, recycling rates, and waste management efficiency, helping municipalities and organizations make better decisions. The proposed system benefits municipal authorities, waste management companies, and environmental organizations by reducing operational costs, improving recycling processes, and promoting sustainable waste disposal practices. Ultimately, this AI-driven solution contributes to cleaner environments, smarter waste management systems, and a more sustainable future.

Key components: Artificial Intelligence (AI), Machine Learning (ML), Deep Learning, Neural Networks, Convolutional Neural Network (CNN), Computer Vision, Image Classification, Object Detection, Predictive Analytics.

I. INTRODUCTION

In the modern world, rapid urbanization and population growth have significantly increased the amount of waste generated every day. Cities, industries, and households produce large quantities of garbage such as plastic, paper, metal, glass, organic waste, and electronic waste. Improper waste disposal and lack of effective waste segregation create serious environmental problems including pollution, landfill overflow, and inefficient recycling processes. Traditional waste management systems rely heavily on manual sorting, which is time-consuming, labor-intensive, and often inaccurate. An AI-Driven Waste Sorting & Garbage Classification System helps address these challenges by using Artificial Intelligence (AI), machine learning, and image processing technologies to automatically identify and classify different types of waste materials. Instead of relying only on human labor, the system can analyze images of waste collected through cameras or sensors placed in smart bins or sorting facilities. By using trained machine learning models, the system can accurately categorize waste into different classes such as plastic, paper, metal, glass, organic waste, and non-recyclable waste. This project aims to develop an intelligent waste classification system that improves the efficiency of waste management processes. The system collects waste images and processes them using deep learning algorithms such as Convolutional Neural Networks (CNN) to recognize patterns and features in different types of garbage. Based on the analysis, the system automatically sorts waste into the appropriate categories.

By implementing AI-based waste sorting and analytics, waste management authorities and recycling industries can significantly improve the accuracy and speed of waste segregation. The system also provides valuable insights into waste generation trends, recycling rates, and disposal patterns, which can help municipalities make better environmental and operational decisions. Ultimately, this project contributes to cleaner cities, improved recycling efficiency, and sustainable waste management practices.

II. LITERATURE REVIEW

Many research studies have been conducted in the field of smart waste management systems using Artificial Intelligence (AI), machine learning, and image processing techniques. With the increasing amount of waste generated in urban areas, researchers and environmental organizations are focusing on developing automated systems that can efficiently identify, classify, and sort different

types of waste materials. AI-based waste classification systems help improve recycling efficiency, reduce manual labour, and support sustainable environmental practices.

A. Analysis of Waste Generation Data

Several studies highlight the importance of analyzing waste generation data collected from households, industries, and public places. This data includes information about types of waste such as plastic, paper, metal, glass, organic waste, and electronic waste. Researchers have shown that analyzing this data helps in understanding waste generation patterns, recycling rates, and disposal methods. Such analysis helps governments and waste management authorities design better waste collection and recycling strategies.

B. Machine Learning for Waste Classification

Many research works focus on using machine learning algorithms to automatically classify waste materials. Algorithms such as Support Vector Machines (SVM), Decision Trees, Random Forest, and K-Nearest Neighbors (KNN) have been widely used for waste classification tasks. These algorithms analyze features of waste images and identify patterns that help in categorizing waste into different groups. Automated classification improves sorting accuracy and reduces dependency on manual waste segregation.

C. Deep Learning and Image Recognition Techniques

Recent research emphasizes the use of deep learning models, especially Convolutional Neural Networks (CNN), for waste image recognition and classification. CNN models are capable of extracting important visual features such as shape, color, and texture from waste images. Researchers have found that deep learning techniques provide higher accuracy compared to traditional machine learning methods when large image datasets are available.

D. Use of Computer Vision and Sensor Technologies

Computer vision techniques combined with camera systems and smart sensors are widely used in modern waste sorting systems. Cameras capture images of waste materials, and AI algorithms process these images to identify the type of garbage. Sensors can also detect physical properties such as weight, material composition, and moisture levels, which helps improve the accuracy of waste classification.

E. Smart Waste Management and IoT Integration

Some studies focus on integrating Internet of Things (IoT) technologies with AI-based waste management systems. Smart bins equipped with sensors and internet connectivity can monitor waste levels, sorting efficiency, and bin capacity in real time. IoT-enabled systems help municipalities optimize waste collection schedules and reduce operational costs.

F. Data Analytics and Visualization in Waste Management

Researchers also highlight the importance of data analytics and visualization tools in waste management systems. Analytical dashboards using charts, graphs, and reports help authorities monitor waste collection trends, recycling performance, and landfill usage. These insights support better decision-making and improve the efficiency of waste management operations.

G. Research Gap Identification

Although several AI-based waste classification systems have been developed, many existing solutions focus mainly on basic image classification without integrating advanced analytics and real-time monitoring systems. There is still a need for systems that combine AI-based waste recognition, data analytics, and smart waste monitoring technologies to provide more efficient and scalable waste management solutions.

III. PROPOSED METHODOLOGY

The proposed methodology provides a systematic approach for developing an AI-based waste sorting and garbage classification system using machine learning, deep learning, and data analytics techniques. The system is designed to automatically detect and classify different types of waste materials from images. The methodology includes several stages such as data collection, data preprocessing, feature extraction, model training, waste classification, and result visualization

A. Data Collection and Dataset Preparation

The first step of the proposed methodology involves collecting waste image datasets from publicly available sources or by capturing images using cameras placed in waste collection areas or smart bins. The dataset typically contains images of different types of waste materials such as plastic, paper, metal, glass, organic waste, and non-recyclable waste.

Each image in the dataset is labeled according to the type of waste it represents. This labeled data helps the machine learning model learn the characteristics of each waste category. The collected dataset is stored in structured formats such as CSV files or image folders, where the image path and waste category are recorded.

After collecting the dataset, data preprocessing is performed to improve data quality. This process includes removing duplicate images, correcting labeling errors, resizing images to a standard size, and normalizing image pixel values. Data augmentation techniques such as rotation, flipping, and scaling may also be applied to increase the size of the dataset and improve the performance of the model

A sample representation of the dataset used for the waste classification system is shown in below.

Image_Id	Waste Type	Category	Weight(Approx)	Location	Disposal Type
W101	Plastic Bottle	Plastic	50g	Public Bin	Recyclable
W205	Newspaper	paper	30g	Household	Recyclable
W310	Banna Peel	Organic	20g	Kitchen Waste	Compostable
W310	Aluminum can	Metal	40 g	Street Bin	Recyclable

Table I. Dataset Description and Composition

Table I represents the structure of the dataset where different waste materials are captured and labeled according to their category. This labeled dataset is used to train artificial intelligence models such as **Convolutional Neural Networks (CNNs)** to automatically detect and classify garbage into appropriate waste categories.

B. Data Pre-processing and Feature Engineering

In this phase, the collected waste image dataset is preprocessed to convert raw image data into meaningful features that can be used by machine learning and deep learning algorithms. Since the system relies on visual data, preprocessing techniques are applied to improve image quality and make the dataset suitable for training the classification model.

Initially, all waste images are resized to a uniform resolution (such as 224 × 224 pixels) to ensure consistency during model training. Image normalization is then applied to scale pixel values between 0 and 1, which helps improve the convergence speed and accuracy of deep learning models.

Data cleaning techniques are also performed to remove blurred, corrupted, or irrelevant images that may affect model performance. In addition, data augmentation techniques such as rotation, flipping, zooming, and brightness adjustment are applied to increase dataset diversity and reduce overfitting. These augmentation techniques help the model learn waste objects from different angles and lighting conditions

Feature extraction plays an important role in identifying the characteristics of waste materials. Visual features such as shape, color, texture, and edges are extracted from images using deep learning techniques. Convolutional Neural Networks (CNNs) automatically learn these important features during the training process by applying convolution filters to the images.

The extracted features allow the model to differentiate between different types of waste such as plastic, paper, metal, glass, cardboard, and organic waste. These processed features are then used to train the classification model, which learns patterns in the dataset and predicts the correct waste category for new images.

By performing proper preprocessing and feature engineering, the AI system becomes more accurate and reliable in identifying waste materials, enabling efficient automatic waste sorting and garbage classification.

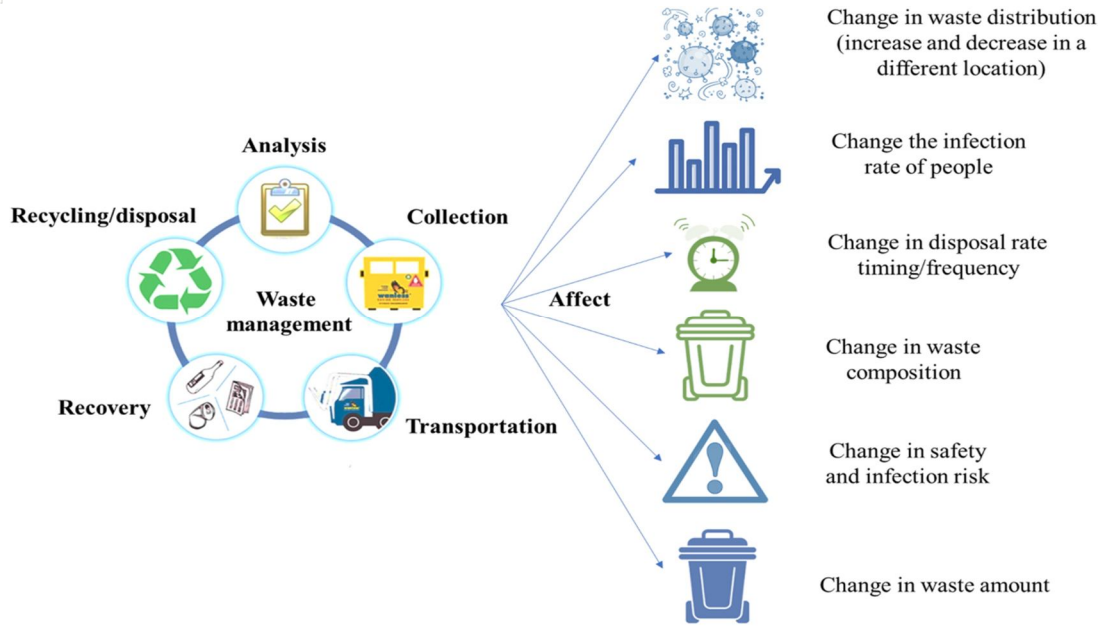


Fig 1: Flowchart of General Machine Learning Process for AI-Driven Waste Sorting and Garbage Classification System

C. Waste Category Labeling

For the waste classification process, a waste category labeling approach is applied to the dataset. In this phase, each waste image collected in the dataset is assigned a specific label based on the type of material it represents. The waste materials are generally categorized into different classes such as Plastic, Paper, Metal, Glass, Organic Waste, and Cardboard. These labels are assigned by analyzing the visual characteristics of waste materials such as shape, color, texture, and structure. Accurate labeling is important because it helps the machine learning model learn the differences between various types of garbage during the training process.

For example, images containing plastic bottles, plastic containers, or plastic packaging materials are labeled as Plastic Waste, while images containing banana peels, food scraps, or vegetable waste are labeled as Organic Waste. Similarly, newspapers and cardboard boxes are labeled as Paper/Cardboard, and items such as aluminum cans or metal scraps are labeled as Metal Waste. The labeled dataset serves as the training data for the artificial intelligence model. Using this labeled information, the model learns patterns and visual features associated with each waste category. During the training phase, the model analyzes these patterns and builds a classification system capable of identifying different types of garbage automatically.

Once the model is trained, it can analyze new waste images captured by cameras or smart bins and accurately classify them into the appropriate waste category. This process helps enable automatic waste sorting, improved recycling efficiency, and better waste management practices, ultimately reducing environmental pollution and promoting sustainable waste disposal.

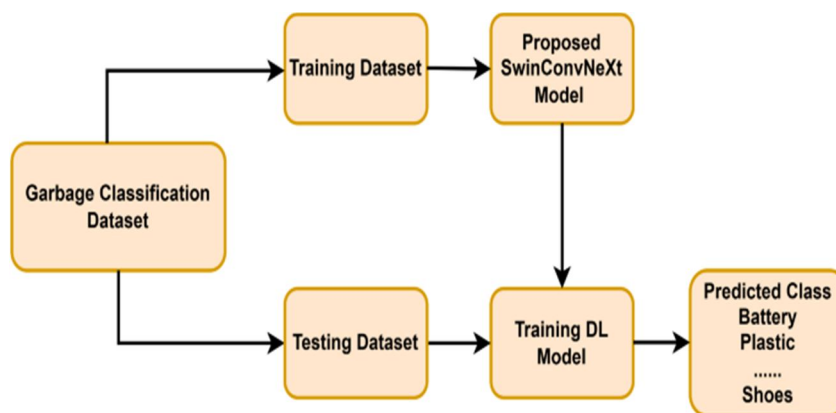


Fig 2: Workflow of Machine Learning for AI-Driven Waste Sorting & Garbage Classification System

D. Model Training and Waste Classification

After preprocessing, the dataset is divided into training and testing datasets to evaluate the performance of the waste classification model. Deep learning algorithms such as Convolutional Neural Networks (CNN), Support Vector Machines (SVM), or Random Forest classifiers can be used because of their ability to analyze complex visual patterns in images effectively. During the training phase, the model learns important visual features from the labeled waste images such as shape, color, texture, and object structure. These features help the model differentiate between different waste categories like plastic, paper, metal, glass, cardboard, and organic waste.

Once the training process is completed, the model is tested using unseen images from the testing dataset to evaluate its accuracy and reliability. The trained model can then automatically predict and classify waste materials based on the image input provided to the system. This classification process plays a key role in enabling automatic waste sorting systems, which can significantly improve recycling efficiency and reduce manual waste segregation.

E. Waste Classification and Material Analysis

Along with identifying the waste category, the system calculates a classification confidence score that indicates how accurately the model predicts the waste type. This score helps determine the reliability of the classification result. The classification decision is based on several visual factors such as color distribution, shape patterns, texture features, and edge detection in the waste images. The system analyzes these characteristics and compares them with patterns learned during the training phase.

Material analysis is performed by examining the visual properties of waste objects to determine the most suitable waste category. For example:

- 1) Plastic bottles and containers are classified as Plastic Waste
- 2) Food scraps and biodegradable items are classified as Organic Waste
- 3) Aluminum cans and metal scraps are classified as Metal Waste

This analysis helps improve the accuracy of waste sorting and ensures that garbage is sent to the correct recycling or disposal process.

F. Web Application and Visualization

Finally, the trained AI model is integrated into a web-based application developed using the Flask framework. This application provides a user-friendly interface where users or waste management operators can upload waste images and receive automatic classification results.

The system also uses data visualization techniques such as charts, graphs, and dashboards to display useful insights related to waste management.

These visualizations may include:

- 1) Distribution of waste categories
- 2) Recycling statistics
- 3) Waste generation trends
- 4) System accuracy and performance metrics

These insights help organizations and municipalities better understand waste patterns and improve smart waste management strategies.

Summary

This project presents a complete solution for building an AI-Driven Waste Sorting & Garbage Classification Analytics System. The system uses machine learning and deep learning techniques to analyze waste images and automatically classify them into different categories such as plastic, paper, metal, glass, and organic waste.

By examining visual features from waste images, the system can accurately identify waste types and assist in automated waste sorting. A web-based application with visualization dashboards is developed to display classification results and waste management insights.

Overall, this project demonstrates how artificial intelligence can improve waste management efficiency, support recycling processes, reduce environmental pollution, and promote sustainable.

IV. RESULTS AND DISCUSSION

A. Dataset Overview and Experimental Setup

The proposed system was tested using a waste image dataset that contains images of different types of garbage materials such as plastic, paper, metal, glass, cardboard, and organic waste. The dataset includes labeled images where each waste item is categorized based on its material type. This dataset helps the system learn the visual characteristics of different waste materials for accurate garbage classification.

After collecting the dataset, data cleaning and preprocessing techniques were applied to improve the quality of the dataset. This process included removing corrupted or unclear images, eliminating duplicate samples, and ensuring that all images were properly labeled according to their waste category.

The dataset was then divided into training and testing sets to evaluate the performance of the waste classification model. Typically, 70–80% of the dataset is used for training the machine learning model, while the remaining 20–30% is used for testing the system's accuracy and performance.

Image preprocessing techniques were applied to prepare the images for deep learning models. These preprocessing steps included:

- Resizing images to a standard resolution (such as 224×224 pixels)
- Normalizing pixel values to improve model performance
- Converting images into numerical arrays suitable for machine learning algorithms

To improve the robustness of the model, data augmentation techniques such as rotation, flipping, zooming, and brightness adjustment were applied. These techniques increase the diversity of training data and help the model learn waste objects from different angles and lighting conditions.

Feature extraction was performed using Convolutional Neural Networks (CNNs), which automatically identify important visual features such as shape, texture, edges, and color patterns in waste images. These features help the system distinguish between different waste materials effectively.

The experimental setup ensured that the extracted features and labeled dataset were used efficiently to train the model, enabling the system to accurately classify waste materials and support automated waste sorting systems.

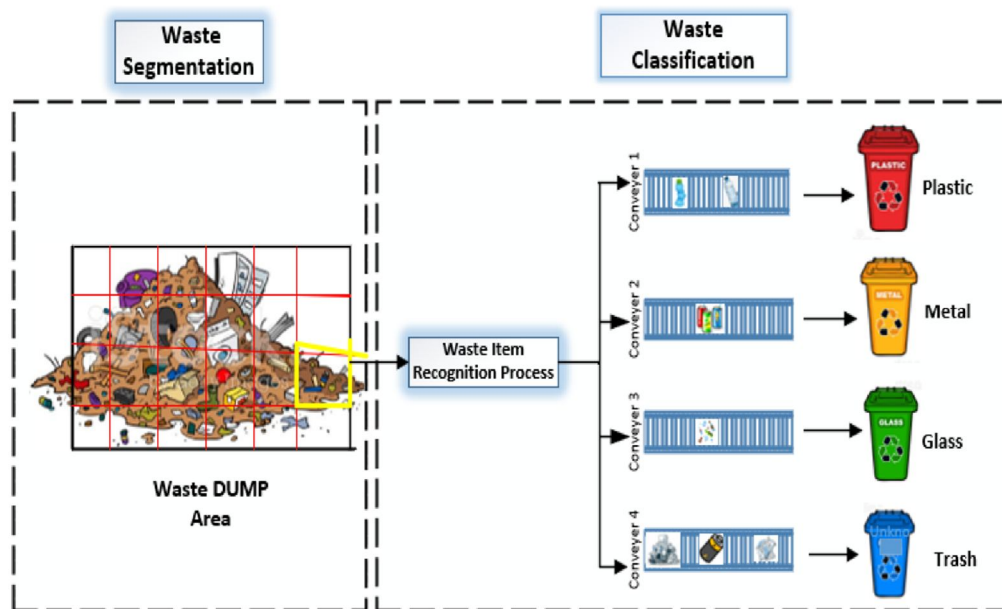


Fig 3: Machine Learning Model Deployment for AI-Driven Waste Sorting & Garbage Classification System

B. Model Performance and Waste Classification Accuracy

The waste classification model was trained using machine learning and deep learning algorithms such as Convolutional Neural Networks (CNN) and Random Forest classifiers to accurately identify and categorize different types of garbage. The experimental results show that the model performs effectively in recognizing waste materials and classifying them into appropriate categories such as plastic, paper, metal, glass, cardboard, and organic waste.

The trained model demonstrated strong performance in identifying waste objects from images captured through cameras or smart bins. By analyzing visual features such as shape, color, texture, and object patterns, the system can accurately determine the type of waste material. This enables automatic waste sorting and reduces the need for manual segregation of garbage.

The results indicate that the AI model is capable of classifying waste with high accuracy, which improves the efficiency of recycling and waste management processes. The system can quickly analyze waste images and provide classification results, helping waste management authorities make better decisions regarding disposal and recycling.

Overall, the experimental results demonstrate that machine learning and deep learning techniques are highly effective for automated waste classification. The implementation of this system can significantly improve waste sorting efficiency, reduce environmental pollution, and support sustainable waste management practices.

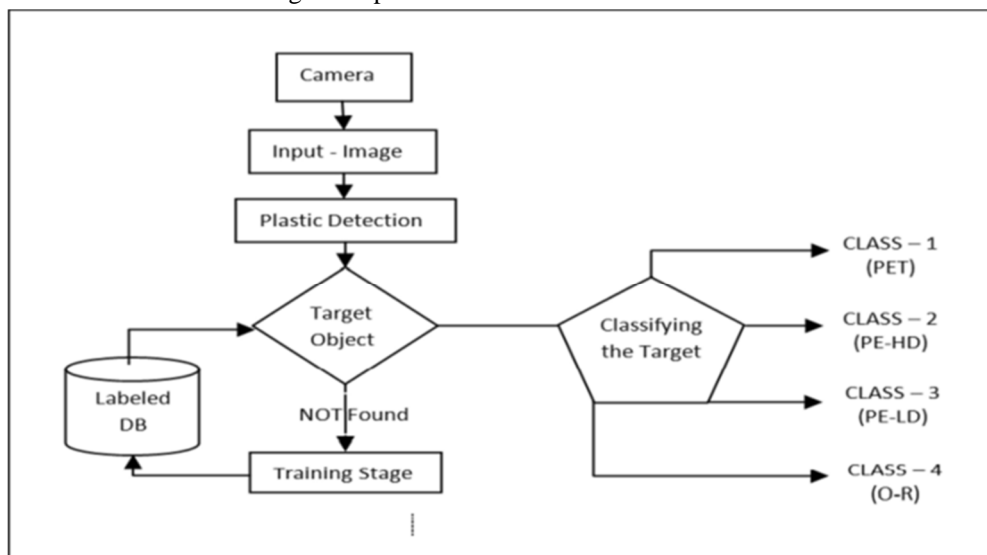


Fig 4: Proposed Methodology Flowchart for AI-Driven Waste Sorting & Garbage Classification Analytics

C. Waste Category Distribution Analysis

The analysis of the waste classification results showed a balanced distribution of detected waste materials across different categories such as plastic, paper, metal, glass, cardboard, and organic waste. Waste items that had clear visual characteristics such as distinct shapes, colors, and textures were classified more accurately by the model.

Plastic materials such as plastic bottles and containers were identified frequently due to their distinctive shape and surface patterns. Similarly, paper and cardboard waste such as newspapers and boxes were easily recognized based on their texture and structure. Organic waste such as food scraps, fruit peels, and vegetable waste was also successfully classified due to its irregular shapes and natural color patterns.

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D. Waste Classification Confidence Score Evaluation

A classification confidence scoring system was designed to evaluate how accurately the model predicts the waste category. The confidence score indicates the probability that a given waste image belongs to a particular category. Higher confidence scores represent stronger certainty in the classification result.

The confidence score is calculated based on several visual features extracted by the model, including color distribution, shape patterns, texture features, and edge detection. When a waste image strongly matches the patterns learned during training, the model assigns a higher confidence score to that category.

For example, images containing clear objects such as plastic bottles, aluminum cans, or cardboard boxes usually receive higher confidence scores because their visual features are easily identifiable. On the other hand, mixed or partially visible waste materials may receive moderate confidence scores.

The experimental results show that the classification confidence scoring system helps in accurately identifying waste categories and improving the reliability of the automated waste sorting system. This contributes to more efficient recycling processes and better waste management practices.

E. Waste Misclassification Gap Identification Results

The waste classification gap analysis was performed by comparing the actual waste category labels with the predicted classification results generated by the AI model. This analysis helped identify cases where the system misclassified waste materials due to similarities in visual features between different waste types.

The results showed that certain waste materials, such as plastic and glass containers or paper and cardboard items, sometimes share similar shapes or textures, which may cause the model to incorrectly classify them. These classification gaps occur when the visual characteristics of waste materials are not clearly distinguishable in the captured images.

By identifying these gaps, the system can be improved by increasing the dataset size, applying advanced image preprocessing techniques, and retraining the model with more diverse training data. Data augmentation techniques and improved feature extraction methods can also help reduce these misclassification errors.

The gap analysis helps developers understand the limitations of the model and improve its accuracy. By reducing misclassification errors, the system becomes more reliable for real-world applications such as automated waste sorting, recycling systems, and smart waste management solutions.

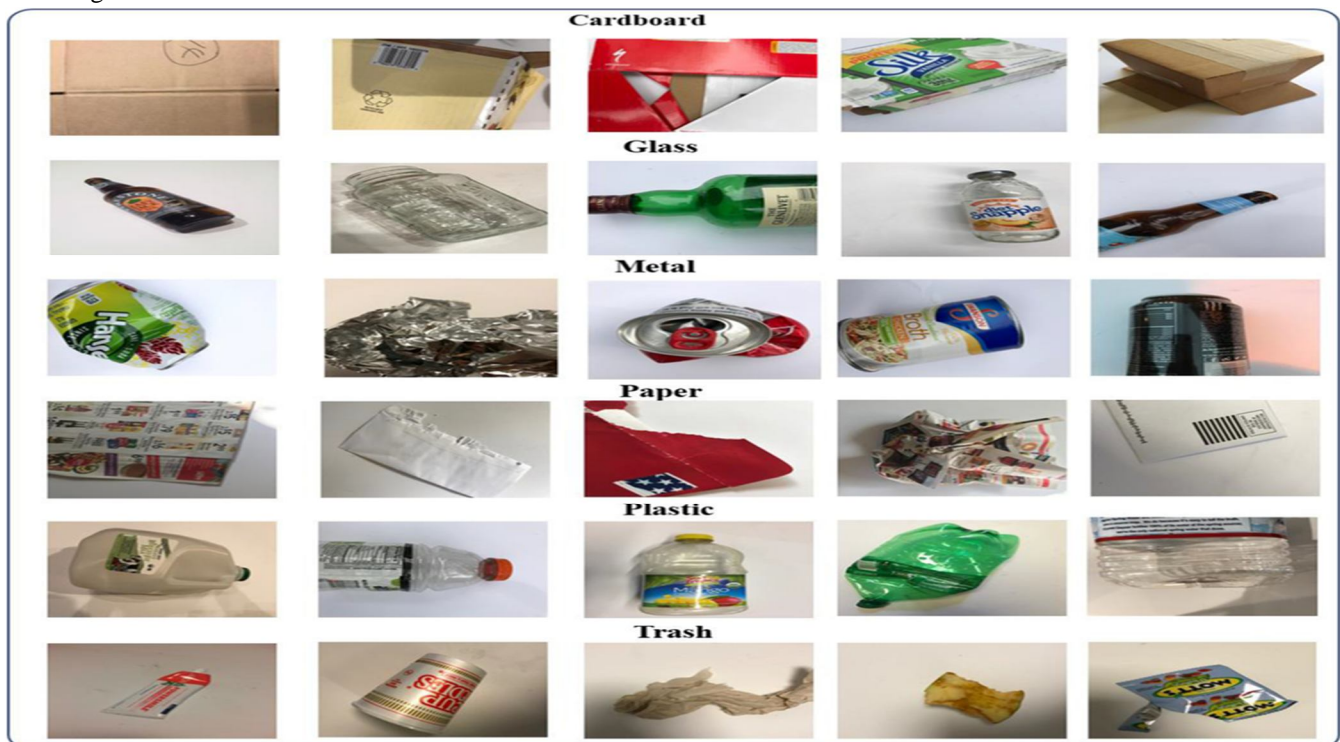


Fig 5: Waste Classification Gap Analysis in AI-Driven Waste Sorting & Garbage Classification Analytics

F. Dashboard Visualization and System Monitoring

The analytical dashboard of the AI-Driven Waste Sorting & Garbage Classification Analytics system uses visualizations such as waste category distribution charts, recycling statistics, and waste generation trends to provide insights into waste management activities. These visualizations help waste management authorities and users easily understand the classification results and the overall waste distribution.

The dashboard displays important information such as percentage of different waste categories (plastic, paper, metal, glass, organic waste, and cardboard) and the frequency of waste collected over time. Graphs and charts are used to illustrate trends in waste generation and recycling patterns, which helps in identifying the most common types of garbage produced in a specific area.

Additionally, the dashboard allows users or administrators to upload waste images and view the classification results generated by the AI model. The system also displays the predicted waste category along with a confidence score, enabling users to verify the accuracy of the classification.

Based on system monitoring and user interaction, the dashboard improves usability by providing clear visual insights into waste data and recycling activities. This helps waste management organizations make informed decisions regarding waste segregation, recycling strategies, and environmental sustainability, making the overall waste management process more efficient and organized.

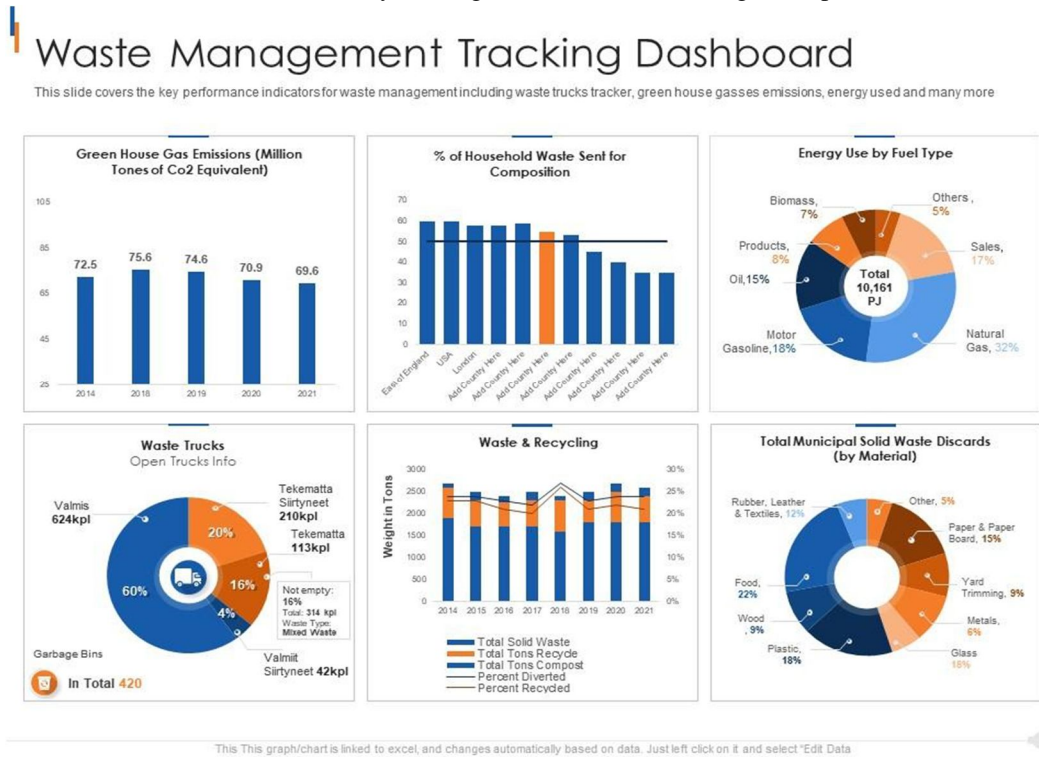


Fig 6: Dashboard Visualization for AI-Driven Waste Sorting & Garbage Classification Analytics

G. Discussion and Observations

Based on the experimental results, it is clear that the integration of artificial intelligence, machine learning, and image processing techniques helps in accurately identifying and classifying different types of waste materials. The system successfully analyzes visual features such as shape, color, texture, and object patterns from waste images to classify them into categories like plastic, paper, metal, glass, cardboard, and organic waste

The experimental observations show that the AI model performs efficiently in recognizing common waste items such as plastic bottles, aluminum cans, paper materials, and food waste. This automated classification process helps reduce manual effort in waste segregation and supports faster and more efficient waste management operations.

Although the system performs well with the available dataset, the classification accuracy can be further improved by using larger and more diverse datasets, real-time waste image collection from smart bins, and more advanced deep learning models. Incorporating technologies such as IoT-enabled smart bins and real-time monitoring systems can also enhance the overall performance of the waste sorting system. This approach helps bridge the gap between manual waste segregation and automated smart waste management systems. By using AI-based waste classification, municipalities and recycling industries can improve recycling efficiency, reduce environmental pollution, and promote sustainable waste management practices.

V. CONCLUSIONS

This project presents an AI-Driven Waste Sorting & Garbage Classification Analytics System that uses artificial intelligence, machine learning, and image processing techniques to automatically identify and classify different types of waste materials. By analyzing waste images and extracting visual features such as shape, color, and texture, the system can effectively categorize garbage into different classes such as plastic, paper, metal, glass, cardboard, and organic waste.

The application of deep learning techniques such as Convolutional Neural Networks (CNN) helps improve the accuracy of the waste classification process. The system learns patterns from labeled waste images and can automatically predict the correct waste category for new images. In addition to waste classification, the system provides useful insights about waste distribution and recycling patterns through interactive dashboards and visualizations.

The developed web-based application improves user interaction by allowing users or waste management authorities to upload waste images and obtain classification results instantly. This system helps reduce manual waste sorting efforts and supports more efficient recycling and waste management processes.

Experimental results show that the proposed system can significantly improve waste segregation efficiency and recycling management. In the future, the system can be further enhanced by incorporating real-time smart bin sensors, IoT-based waste monitoring systems, advanced deep learning models, and larger waste image datasets to improve classification accuracy and scalability. These improvements will contribute to smarter waste management systems and better environmental sustainability.

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