Problem Statement: AI/ML

India faces significant challenges in solid waste management, necessitating an AI-based solution. This solution will optimize waste collection routes, identify high waste generation areas, forecast accumulation patterns, utilize image recognition for efficient waste sorting, and enable real-time monitoring for timely interventions.

Key Points of the Problem:

- 1. Inefficient Waste Management: India struggles with ineffective waste management practices, leading to environmental pollution and health hazards.
- 2. AI Optimization: Utilizing AI algorithms can enhance waste collection efficiency by optimizing routes and identifying high waste generation areas.
- 3. Image Recognition for Sorting: Incorporating image recognition technology aids in efficient waste sorting, promoting better recycling and disposal practices.
- 4. Real-time Monitoring: The platform's real-time monitoring capabilities facilitate timely interventions and resource

allocation, improving overall waste management sustainability.