

**SMART WASTE MANAGEMENT SYSTEM
FOR
METEROPOLITAN CITIES**

TEAM ID: PNT2022TMID04344

LITERATURE SURVEY

S.NO	PAPER	AUTHOR	YEAR	METHOD AND ALGORITHM
1.	Real-time smart garbage bin mechanism for solid waste management in smart cities	N.S Raghava, Dominic Abuga	2021	<p>The main focus of this paper is to suggest novel methods of solid waste management and the associated control mechanism for smart cities coherently making a Smart Garbage Bin Mechanism(SGBM).</p> <p>The decision-based algorithms would sense the waste-data through a wireless sensor network (WSN). The architecture had three modules, namely the control station, smart garbage bin and gatewa</p>
2.	IoT-Based Smart Waste Bin Monitoring and Municipal Solid Waste Management System for Smart Cities	Muhammad Irfan, Abdullah Saeed Al wadie and Adam Glowacz	2020	<p>The researchers have adopted various methods and techniques to resolve these issues, specifcally, the solid waste management [12]. In [13–15], the capacity, weight, temperature, humidity and chemical sensors are used for solid waste monitoring and collection. In [15], author (s) have presented a municipal solid waste management platform for recycling collection information with the help of IT technology</p>

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3.	Smart waste management using Iot and Block chain technology	Manish Lamichhane	2017	The purpose of experimentation , a simulation of SGB is used which is based on the assumptions that the SGB calculates the weight of waste using similar methods. This kind of SGB can be suitable for deployment to real world of TAG in real world. Sorting at source enhances the quality of waste generated significantly.
4.	Monitoring the smart garbage bin filling status: an iot application towards waste management	Sirisha Yerraboina, Nallapaneni Manoj Kumar, K. S. Parimala, N. Aruna Jyothi	2018	Microcontroller using the ZigBee methodology was proposed for the garbage bin application. With this, a prototype was developed for making the collection process to be easier by spotting the filled or yet to spill over of the bins from any particular area. The proposed ZigBee based methodology was used for the information exchange between the garbage bins and sensor elements
5.	IOT Based Smart Garbage alert system using Arduino UNO	dr.n.Sathishkumar, b.Vijayalakshmi, r.Jeniferprarthana, a .Shankar	2020	Technique is to store an identical serial number that recognizes a person or object on a microchip that is committed to an antenna. The combination of antenna and microchip are combinedly referred to as "RFID transponder" or "RFID tag" and it work in combination with the "RFID reader"
6.	A Serverless IoT Architecture for Smart Waste Management Systems	Eyhab Al-Masri, Ibrahim Diabate, Richa Jain, Ming Hoi Lam and Swetha Reddy	2018	The data collected by the smart bins' camera module and sensors is sent to an analytics unit. The analytics unit examines captures images of disposed substances and is able to process them to detect possible violations.

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7.	An Internet of Things Based Smart Waste Management System Using LoRa and Tensorflow Deep Learning Model	Hatem rmili, Mohammad tariquul islam , md. Rashedul islam	2020	<p>A deep learning method such as a convolutional neural network allows for the extraction of unique features from the image and then classifies them into each class with high accuracy.</p> <p>the pre-trained object detection model is trained using images of waste as a training dataset.</p>