LITERATURE SURVEY

Smart Waste Management System For Metropolitan Cities

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1) SMART GARBAGE MONITORING SYSTEM USING IOT Dr. Ihtiram RazKhan, Mehtab Alam, Anuj Razdan Department of Computer Science & Engineering, School of Engineering Sciences & Technology, Jamia Hamdard, New Delhi, India

The main objective of the Smart Garbage Monitoring System using IoT is to reduce the usage of the resources and efforts and to improve the city's smart vision. By using a sensor and GSM the environment is clean and hygienic and ensures environmental cleanliness. Improper disposal and storage of household waste creates problems for public health and pollution. Smart Garbage Monitoring System using IoT is developed using ultrasonic sensor as distance measuring sensor, GPS will help in sending the location of the garbage box and GSM will help in sending the message to the municipal authorities with the current location The Smart Garbage Monitoring System using IOT was developed using Arduino IDE as IDE Tool and Google API as software tool.

2)Smart Garbage Monitoring System using Internet of Things(IOT) by Prakash Kanade Researcher in Robotics, Artificial Intelligence. Prajna Alva Lecture, LeenaBOT Robotics Pvt Ltd

Trash defilement has a significant ecological effect.The components used are Arduino microcontroller ,a ultrasonic sensor, a Wi-Fi module and a heap battery.Information from the ultrasonic sensor and burden cell is collected by the Arduino microcontroller.Utilizing a ultrasonic sensor, the profundity of the trash in

the compartment is resolved and the heaviness of the waste receptacle from The heap cell is estimated For indicating the information, the LCD screen is utilised. The Wi-Fi module sends to the web.In this framework, the executive can plan and track the waste disposal.The scavengers will get an alert when the capacity reaches the saturation level.The trash bin information can be viewed and tracked and it saves money**.**

3)"Approach to the garbage collection in the Smart clean city Project,"Yuri Gagarin State Technical University of Saratov,Russia, 2016 by Borozdukhin, O. Dolinina and V. Pechnkin

Andrei Brozdukhin and friends later proposed the new system with two working hands: software components and unique indicator equipment [4]. The unique indicator equipment is attached on the dustbin walls. It is made up of two parts: one is the receiver-transmitter and the other is the sensor. The sensor is used for indicating the level of garbage in the dustbin and is attached to the transmitter device that sends the “Dustbin is full, Please empty it” signal to the concerned authorities. It is now the job of Artificial Intelligence algorithms to find the shortest path and nearest truck driver to the concerned dustbin and notify them for the waste collection.

4)Raspberry pi-based smart waste management system using Internet of Things by Shaik Vaseem Akram, Rajesh Singh

Nowadays it is becoming a difficult task to distinguish wet and dry waste. The new waste management system covers several levels of enormous workforce. Every time labourerS must visit the garbage bins in the city area to check whether they are filled or not. The data communicates to the cloud server for real-time monitoring of the system. With the real-time fill level information collected via the monitoring platform, the system reduces garbage overflow by informing about such instances before they arrive.