A Review On Revolutionizing Waste Water Collection and Recycling Processes with IoT

Aviksha Hegde[1], Anvesh M S[2], Ashik S[3], Archana N[4], Dr. Pradeep V[5]

Department of Computer Science and Engineering (IoT & Cyber Security including Blockchain)[1,2,3,4,5]

Alva's Institute of Engineering and Technology, Mijar, Mangalore, Karnataka, India

Abstract*: This paper provides an extensive review of IoT-driven solutions addressing critical challenges in sectors like wastewater treatment, agriculture, waste management, e-waste recycling, and water quality monitoring. Innovative models leverage IoT technology for real-time monitoring, control, and optimization. Examples include an industrial IoT cloud-based model for wastewater treatment, sensor integration in aquaculture systems for improved resource management, and intelligent waste collection systems in smart cities. The review identifies gaps and opportunities for advancements, highlighting the importance of real-time data collection, cloud-based analytics, and machine learning for informed decision- making in environmental and resource management.*

Keywords: Waste management, Agriculture, Resource optimization, IoT applications, Real-time monitoring, Industrial IoT.

Copyright to IJARSCT
www.ijarsct.co.in

DOI: 10.48175/IJARSCT-19355

ISSN
2581-9429
IJARSCT

437