Literature Review

S.No	Author(s)	Title	Source	Year	Methodology	Findings	Gaps
1	Sujan Poudel & Prakash Poudyal	using CNN	ACM Digital Library	2022	Aception, VGG19, MobileNet, ResNet50, DenseNet201) to	InceptionV3 achieved the highest accuracy, effectively distinguishin between biodegradabl and non- biodegradabl waste.	capabilities and
2	Jenil Kanani	Image Recognition for Garbage Classification Based on Pixel Distribution Learning	arXiv	2024	Proposed a novel approach inspired by pixel distribution learning techniques to enhance automated garbage classification, aiming to reduce computational complexity and improve robustness to image variations.	potential of pixel distribution learning in automated garbage classificatio n technologie	develop a web-based application; lacked real- time classification capabilities
3	Zhang et al.	Applications of Convolutiona I Neural Networks for Intelligent Waste Identification and Recycling: A Review	Scienc eDirec t	202	Conducted a comprehensive review of 355 articles on CNN applications in intelligent waste identification and recycling (IWIR).	Highlighted the potential of CNNs in IWIR, noting their superior performanc e over traditional methods.	Identified challenges such as the need for large, diverse datasets and real-time processing capabilities; did not focus on developing web-based applications or integrating

			with IoT
			devices.