

AI in Autonomous Harvesting and Robotic Sorting: A Review in Agricultural Applications

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Abstract: Artificial Intelligence (AI) is transforming agricultural practices, particularly in the domains of autonomous harvesting and robotic sorting. This paper reviews the current state of AI in these agricultural applications, examining the technologies, benefits, challenges, and future prospects. Autonomous harvesting and robotic sorting systems, powered by machine learning, computer vision, and robotics, promise to revolutionize traditional farming practices by improving efficiency, reducing Labor costs, and increasing productivity. This review consolidates recent advancements, evaluates the impact of AI, and suggests avenues for future research in the field.

Keywords: Autonomous harvesting, Robotic Sorting, Artificial Intelligence in Agriculture, Machine Learning in Farming, Crop Sorting System, Labour Reduction in Agriculture

