

Evaluating the Effectiveness of AI-Based Approaches in Image Processing Systems

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Abstract: *The combination of machine learning and deep learning technologies has transformed image processing in recent years, resulting in notable breakthroughs across a range of applications. These technologies have changed the way images are processed, interpreted, and used in a variety of fields, from remote sensing and medical image analysis to object detection and recognition. This study examines the significant effects of machine learning and deep learning on image processing, emphasizing significant developments, difficulties, and potential paths forward.*

Keywords: deep learning, image processing, machine learning, algorithm