A Project Abstract

on

QUALITY CONTROL USING COMPUTER VISION

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ABSTRACT

Computer vision technology is revolutionizing quality control processes in various industries by enabling automated defect detection and classification. This project presents a comprehensive system for quality control using computer vision, leveraging machine learning algorithms and image processing techniques to ensure high-quality products. The system utilizes machine learning algorithms and image processing techniques to detect defects and anomalies in products, ensuring high-quality output and reducing manual inspection errors. The system aims to improve product quality, reduce inspection time, and increase overall efficiency in various industries, including manufacturing, food processing, and pharmaceuticals. By leveraging computer vision technology, this project contributes to the development of smart and automated quality control systems. The benefits are Improved product quality, Reduced inspection time, Increased efficiency, Enhanced customer satisfaction. The applications are Manufacturing, Food processing, Automotive. Automated quality control using computer vision is a game-changer for industries seeking to improve product quality and reduce manual inspection errors. This project demonstrates the potential of computer vision technology to transform quality control processes, enabling businesses to stay competitive and innovative.

Keywords: *Computer Vision, Quality control, Automated Defect Detection, Anomaly Detection.*

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