Impact Factor: 6.252

Visual Inspection for Industries

Pratik Maurya[1], Chinmay Gaikawad[2], Suyash Salvi[3]
Students, Department of Computer Engineering[1,2,3]
Vasantdada Patil Pratishthan's College of Engineering, Mumbai, Maharashtra, India

Abstract: *The system is an AI-ML image recognition-based application that gives Quality Control and Quality Assurance functionality at the same time to the small-scale industries. The system continuously scans the product for any defects, anomalies, imperfections, damages, foreign substances, or any other non-standard qualities on the product. The system basically is a governing/supervising authority that keeps that fact in check that the standard procedures and standard quality has been maintained throughout the production. This system works automatically and there is little to no human input required. It is fully automatic and requires no human input. There are no chances of error that are very plausible in a human-assisted or human-moderated system. The system only requires regular maintenance from a well-trained technician and no further human input. The system is smart and gives warnings, can halt production when needed for the QA.*

Keywords: Machine learning, Image recognition, Industries, Assembly line, Image Recognition

REFERENCES

[1]. AI-based visual inspection for defect detection by Serhii Maksymenko
[2]. Everything you need to know about visual inspection with AI by Jamshed Khan
[3]. The use of visual inspection in asset management and quality control opencv for computer vision application by Naveenkumar Mahamkali
[4]. Book Python for data analyst