

Developing a Web application to support product quality control and product defect statistics with integrated AI data analysis in industrial manufacturing

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Abstract: This topic focuses on developing a web system to support product quality control and product defect statistics, while integrating artificial intelligence (AI) to enhance data analysis capabilities. The research context is defined by the necessity of product quality improvement in modern industrial enterprises. The main objective is to build a system that improves management and quality control efficiency by deploying AI to automate the analysis and identification of product defects. The research methodology includes both theoretical aspects of AI technology and experimentation based on the application of the developed system in manufacturing enterprises. The expected outcome of the topic is an effective system that helps improve product quality and increase productivity in the industry, contributing to the sustainable development of enterprises.

Keywords: AI survey, product quality management, data analysis, web application, product defect control