Comparative Analysis of Big Data Computing in Industry 4.0 and Industry 5.0: An Experimental Study

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Abstract. A comparison of the use of big data computing in Industry 4.0 and Industry 5.0 was carried out utilizing data collected from the actual world for the purpose of this research. The findings suggest that there has been a 2% drop in the number of faulty items produced in Industry 5.0, coupled with a 1% decrease in the amount of energy used in highly automated companies. According to the findings of the quality control, fault Type B accounts for around 65 percent of the overall defects in Industry 4.0. The results highlight the benefits of Industry 5.0, which capitalizes on human–machine cooperation, data-driven processes, and customized products and services. These insights help to contribute to manufacturing processes that are more efficient, more sustainable, and more quality–driven. Big data computing, Industry 4.0 and 5.0, quality control, and energy efficiency are some of the keywords to look for.

Keywords. Big data computing, Industry 4.0 and Industry 5.0, quality control, and energy efficiency are some of the keywords here.

1 INTRODUCTION

The arrival of the Fourth Industrial Revolution, also known as Industry 4.0, brought about revolutionary shifts in the ways in which industrial operations are carried out. Industry 4.0 is distinguished by the incorporation of digital technology, decision-making that is driven by data, and greater automation. Industry 5.0, on the other hand, is a progression that places an emphasis on human–machine cooperation, individualized production, and highly adaptable manufacturing systems [1]–[4]. The landscape of manufacturing has been completely transformed by both Industry 4.0 and Industry 5.0, each of which represents a different technological paradigm. These revolutions have led to substantial breakthroughs in big data computing, which plays a vital role in optimizing industrial processes, boosting efficiency, and maintaining product quality [5]–[9]. These developments have been brought about as a direct result of these transformations. The convergence of Industry 4.0 and Industry 5.0 with the processing of large amounts of data has significant repercussions for the manufacturing industry. Because to Industry 4.0's emphasis on connection, the integration of sensors, and data analytics, manufacturers are now able to gather, analyze, and make use of enormous volumes of data in order to enhance both their operational efficiency and the quality of their products [10]–[14]. However, when Industry 5.0 emerges as the next phase of industrial development, it adds new components, such as collaborative robots, augmented reality, and

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