

## **Cobotics in Automated Pharmacy Solutions**

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**Abstract:** Cobotics is an emerging technology beginning to see widespread adoption in many manufacturing and service industries, leading to growth of automated facilities, including automated pharmacies. While cobotics falls within the autonomous cobots pillar of Industry 4.0, there are several other pillars that can be used to augment the performance of cobots in automated pharmacies. The purpose of this project is to combine cloud computing, big data analytics and simulation with a cobot designed to operate in an automated pharmacy and explore the impact that the improvements have on the performance of the cobot tasked with packaging. To analyze the impact, data on the performance of the cobot will be collected before and after the changes to provide a quantitative view of the impact of the technologies. Although the project focuses on the automated pharmacy environment, the implications of a successful project extend into many manufacturing and service industries.

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