

Adoption of Industry 4.0 in the IT Hub - Case Study of Kolkata

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Abstract: *Industry 4.0 has completely changed traditional corporate processes by utilizing digital and cognitive technology to transform production and services. Industry 4.0 adoption in India is quickening but is still unequal, especially in new IT hotspots like Kolkata. The adoption trajectory, obstacles, and strategic prospects related to Industry 4.0 in Kolkata's IT sector are examined in this research report. It looks into organizational change processes, skill availability, firms' technological readiness, and the responsibilities of academia and government in supporting Industry 4.0 adoption using a mixed-methods approach. The results indicate that although Kolkata has achieved noteworthy strides in policy and infrastructure, there are still large gaps in enterprise innovation, industry-academia collaboration, and worker readiness. In order to facilitate a more inclusive and integrated Industry 4.0 development in the area, the report makes strategic recommendations.*

Keywords: Digital Transformation, Artificial Intelligence, IoT, Big Data, Smart Manufacturing, Industry 4.0, Kolkata, IT Hub, Skill Development & Policy Implementation

