

Article 2 :Prospects of Artificial Intelligence Use for Business Monitoring: Legal Aspects

Authors : Mohammed Ridha H .Alhakeem

This article give us a perception of how Artificial Intelligence can be used in monitoring systems in different fields such as Agriculture, Manufacturing, Healthcare and Finance. This article particularly emphasize the greater efficiency, accuracy and productivity of AI compared to the human being.

The paper explores the benefits and challenges of AI in Each industry, firstly and more importantly for our subject, regarding monitoring, which will be used in all the following industry by AI, it enhance real-time capability, anomaly detection and overall system accuracy and reliability. Now regarding each sector :

- For the Finance, the financial institutions will benefit from AI regarding fraud detection, risk management and trading. However, challenges remains regarding data quality, regulatory compliance and ethical considerations.
- For the Agriculture, Ai could have a lot of benefit with the prediction of the weather, analyzing soil conditions and forecast harvest yields. Regarding the monitoring part, AI could be used for monitoring crop health and growth.
- For the Manufacturing, the control would mainly be used regarding quality control and supply chain optimization as well as process optimization. This would vastly increase efficiency, improved the quality of the work and reduce downtime leading to overall better decision making.
- For the Healthcare, it greatly benefits from AI in four main areas: medical imaging, personalized medicine, electronic health record management, and drug discovery. Such advancements contribute to improved patient outcomes, efficiency, and cost reduction. Nevertheless, challenges such as data quality, interpretability, privacy, security, and ethical considerations must be addressed for successful AI integration.

Overall, AI offers significant potential in modernizing monitoring and management systems across industries. However addressing challenges such as Data quality, security risks, cost of implementation and integration of the AI with existing systems and understanding limitations are crucial for successful implementation and maximizing its benefits.