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Egyptian Banking Institute



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FEBRUARY 2024

Current Trends

“ AI Governance ”



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Defining the Concept:

AI Governance refers to the frameworks, rules, and standards that guide the research, development, and application of artificial intelligence (AI) to ensure safety, fairness, and respect for human rights. It involves oversight mechanisms that address risks like bias, privacy infringement, and misuse, while fostering innovation and trust.

AI Governance aims to ensure that AI tools and systems are and remain safe and ethical. It addresses the inherent flaws arising from the human element in AI creation and maintenance, as AI, being a product of highly engineered code and machine learning created by people, is susceptible to human biases and errors. AI Governance provides a structured approach to mitigate these risks, ensuring that machine learning algorithms are monitored, evaluated, and updated to prevent flawed or harmful decisions.

AI Governance is essential for reaching a state of compliance, trust, and efficiency in developing and applying AI technologies. By providing guidelines and frameworks, AI governance aims to balance technological innovation with safety, ensuring AI systems do not violate human dignity or rights.

Benefits of applying AI Governance in Banking:

AI governance safeguards banks, fosters trust, and enables responsible AI adoption in the dynamic banking landscape. Here are some key points on how AI governance benefits the banking sector:

- 1. Risk Management and Compliance:** AI governance ensures that banks adhere to regulatory requirements and industry standards. It helps manage risks associated with AI, such as data bias, model interpretability, and fairness in decision-making.
- 2. Ethical and Responsible AI:** Banks must deploy AI ethically, avoiding discriminatory outcomes or harm to customers. AI Governance frameworks guide banks in creating transparent, accountable, and responsible AI systems.
- 3. Transparency and Explainability:** Regulators and customers demand transparency. Banks need to explain how AI models arrive at decisions. AI Governance practices ensure that AI is not a “black box¹,” allowing for better understanding and trust.
- 4. Model Validation and Monitoring:** Regular validation and monitoring of AI models are crucial. AI Governance ensures ongoing performance assessment. Banks can identify issues promptly and take corrective actions.
- 5. Human Oversight:** While AI automates processes,

Challenges of adopting AI-Governance in banking:

human oversight remains essential. AI Governance frameworks define roles, responsibilities, and escalation procedures for human intervention.

These benefits highlight the importance of AI governance in banking, ensuring that AI technologies are used responsibly and ethically while maximizing their potential.

The adoption of AI governance in banking presents several challenges that institutions must address to ensure responsible and effective deployment. Let's explore these challenges:

- 1. Dynamic Regulatory Environment:** Regulations around AI are constantly evolving. Banks must keep up with changes and ensure compliance. Balancing innovation with regulatory requirements is a delicate task.
- 2. Integration into Production Systems:** Moving from experimentation to full-scale deployment is complex. Ensuring seamless integration of AI models into existing production systems is a challenge.
- 3. Ongoing Model Management and Maintenance:** AI models require continuous monitoring, updates, and maintenance. Banks must allocate resources for AI models governance and upkeep.
- 4. Data Privacy and Security:** Protecting customer data is paramount. AI systems must adhere to privacy regulations. Ensuring secure data handling throughout the AI lifecycle is critical.
- 5. Skills and Talent Gap:** Banks need skilled professionals who understand both AI and banking. Recruiting, training, and retaining talent in this specialized field can be challenging.
- 6. Process Complexity:** Implementing AI across various banking processes involves intricate workflows. Simplifying and streamlining processes while integrating AI is essential.
- 7. Components of Regulation:** Determining what aspects of AI to regulate and how to do so is a complex task. This includes dealing with issues like accountability, transparency, privacy, bias, and safety.
- 8. Regulatory Authority:** Deciding who should regulate AI and how they should do it is another challenge. This involves a balance between a horizontal approach² to AI regulation and the sector-specific dimensions³.

In summary, while AI governance offers immense benefits, addressing these challenges is crucial for successful adoption in the banking sector.

How banks can overcome the challenges of applying AI-Governance in their operations?

Banks can overcome the challenges of applying AI governance in their operations by following these strategies:

- 1. Developing a Clear AI Strategy:** A well-defined strategy for AI is crucial. This includes identifying the areas where AI can add the most value, and planning for its integration.
- 2. Improving Technology Infrastructure:** Banks need to invest in their technology core to make it flexible and capable of supporting AI technologies. This includes data infrastructure that can handle the large volumes of data required for AI.
- 3. Data Management:** Banks often have fragmented data assets. Effective data management and integration are key to leveraging AI.
- 4. Addressing Ethical and Legal Concerns:** Banks need to develop an AI risk and governance framework to ensure inclusion of policies and procedures that address the AI risk management principles and regulatory requirements that protect both consumers and banks.
- 5. Cultural Transformation:** Accepting that culture transformation is essential to digital transformation is a critical step. This includes fostering a culture of collaboration between business and technology teams.
- 6. Proactive Approach:** Banks should stay updated with the latest AI tools. Being prepared for disruptive threats ensures agility and adaptability.

By implementing these strategies, banks can navigate AI governance challenges effectively and harness the benefits of responsible AI deployment.

² Horizontal Approach: Refers to general principles and regulations that apply across all sectors and industries. For AI, this could involve guidelines related to transparency, fairness, and accountability.

³ Sector-Specific Dimensions: Recognizes that different sectors (e.g., banking, finance) have unique AI use cases and associated risks. Sector-specific regulations address these specific contexts.

Examples Worldwide:

Here are some examples of banks that have implemented AI governance, these banks have not only implemented AI in their operations but also established robust governance mechanisms to ensure the ethical and fair use of AI. This includes setting up committees and frameworks to oversee the use of AI, developing guidelines for ethical use, and regularly reviewing and approving AI models:

- 1. HSBC:** HSBC has developed an AI governance framework that includes a steering committee to oversee the bank's AI strategy.
- 2. Standard Chartered:** Standard Chartered has implemented an AI governance framework that includes a set of principles to guide the ethical use of AI.
- 3. Bank of Montreal:** The Bank of Montreal has a governance structure in place to oversee the use of AI and machine learning, including a council that reviews and approves AI models.
- 4. Monetary Authority of Singapore (MAS):** In Singapore, the central bank, MAS, worked with financial industry partners to create Veritas, an R&D framework to promote the responsible adoption of AI and associated data analytics.

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