Deciding with Data | Leveraging information to make better data-driven choices.
Increasing the Success Rate of AI and ML Systems Deployment at the Enterprise Level

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The True Success:
- Deployment to production (operationalization)
- Meeting business objectives (success criteria)

The Problem:
- On average, 54% of AI projects make it from pilot to production
- On average, 85% of AI projects eventually fail to bring their intended results to the business
But, Why…

- Unclear business objectives
- Lack of planning for continued AI, model, data iteration, and lifecycle
- Misalignment of real-world data and interaction against training data and models
- Lack of collaboration between teams
MLOps

- A set of practices that aims to deploy and maintain machine learning models in production reliably and efficiently
MLOps is not self-sufficient for AI systems to meet the mission and be successfully operationalized.
Enterprise Architecture (EA)

- Facilitate business-relevant analyses
- Define roles and responsibilities for data improvements
- Provide an enterprise view of the data landscape
- Improve and scale the process of data analysis
- Enterprises that use data-driven Enterprise Architecture systems to make decision choices are 77% more likely to excel in meeting their business targets (Deloitte)
AI/ML and the Business (Why)

- Strategic alignment
- AI/ML system development and deployment and efficient resource management
- Standardization and governance
- Improved collaboration and communication
- Continuous improvement and adaptability
- Security and compliance

Integrating MLOps practices within the Enterprise Architecture framework can increase success rates for AI/ML deployments at the enterprise level by promoting strategic alignment, efficient resource management, standardization, governance, improved collaboration, continuous improvement, and better risk management.
EA & AI/ML Augmentation – Increasing True Success (How)

- Establish a shared vision
- Incorporate MLOps principles into EA frameworks
- Develop MLOps policies and standards
- Foster collaboration and communication
- Implement MLOps tools and platforms
- Monitor and measure success
- Continuously evolve and adapt

By integrating MLOps practices into the EA framework, organizations can ensure that their machine learning investments are efficiently managed and aligned with their strategic goals, ultimately leading to better business outcomes.
Let’s Discuss…

- Challenges of this augmentation
- Diving deeper into MLOps: feature store, DataOps, ModelOps
- Risk of not utilizing EA in a data-driven design at the enterprise level
- DevOps vs MLOps
- Deep dive discussions for the next phase of research
- Let’s connect and work together to further the research!
Questions & Discussions
Thank You!

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