

DELIVERING QUALITY AI PROJECTS

IN THE REGULATED SPACE

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INTRODUCTION

WHAT IS GEN AI?

Generative AI, short for **Generative Artificial Intelligence**, refers to a category of artificial intelligence systems and models that are designed to generate **new content**, such as text, images, audio, or other data types, that is similar to what a **human might create**. Generative AI systems are capable of **producing content** that wasn't explicitly programmed into them; instead, they **learn patterns** and structures from existing data and **use this knowledge** to generate new, creative, and often contextually relevant output.

Gen AI is different in terms of purpose and output in that its primary purpose is to create new data or content that **resembles human-created** data. It can generate text, images, audio, or other types of content. It is often used for **creative tasks** such as text generation, image synthesis, and music composition. Its learning paradigm differs because it typically uses **unsupervised learning** techniques. These models learn patterns and structures from large datasets without explicit labels. It has **enormous training data requirements** with a high level of quality and diversity, driving **specialized architectures** such as Generative Adversarial Networks (GANs), Variational Autoencoders (VAEs), and transformer-based models like GPT (Generative Pre-trained Transformer). These applications and approaches give rise to certain **ethical considerations** such as issues like **bias** in generated content, **deepfakes**, and the potential for **misinformation**.

GENERATIVE & OTHER AI IN PROJECTS

OPPORTUNITIES FOR PROJECT MANAGERS AND PMBOK'S ROLE



BENEFITS

CHALLENGES

REGULATORY NEEDS

PM INFLUENCE

PM'S GOALS+

Data Analysis and Insights	Data Privacy and Security	Explainable AI (XAI) Techniques	Improved Decision Understanding	Integrate Generative AI Effectively
Risk Assessment	Validation and Verification	Rule-Based Systems	Risk Mitigation	Ensure Data Availability and Quality
Resource Allocation	Interpretability	Model Inspection Tools	Optimized Resource Allocation	Risk Management for AI Integration
Documentation and Reporting	Continuous Monitoring	Post-Hoc Analysis	Effective Communication	Quality Assurance for AI Outputs
Scheduling and Timelines	Human Oversight	Explanatory Interfaces	Continuous Improvement	Resource Allocation for AI
		Interpretable Model Architectures	Compliance and Documentation	Monitor AI Model Performance
			Mitigating Bias and Errors	Ethical AI Usage
			Resource Efficiency	Compliance and Regulatory Adherence
			Scenario Planning	Effective Communication of AI role
			Enhanced Stakeholder Engagement	

PROJECT MANAGEMENT INFLUENCE

FOCUS AREAS

REDIRECT AND GUIDE

AI Projects are data and model-driven – Adapt to Emerging Trends



QUALITY

Quality Assurance for AI Outputs; Ensure Ethical AI Usage, Compliance and Regulatory Adherence



COMMUNICATE

Enable Stakeholder Engagement; Ensure Documentation and Reporting; Achieve Client Satisfaction



MEASURE

Monitor AI Model Performance, Performance Measurement, Risk Management, Continuous Improvement

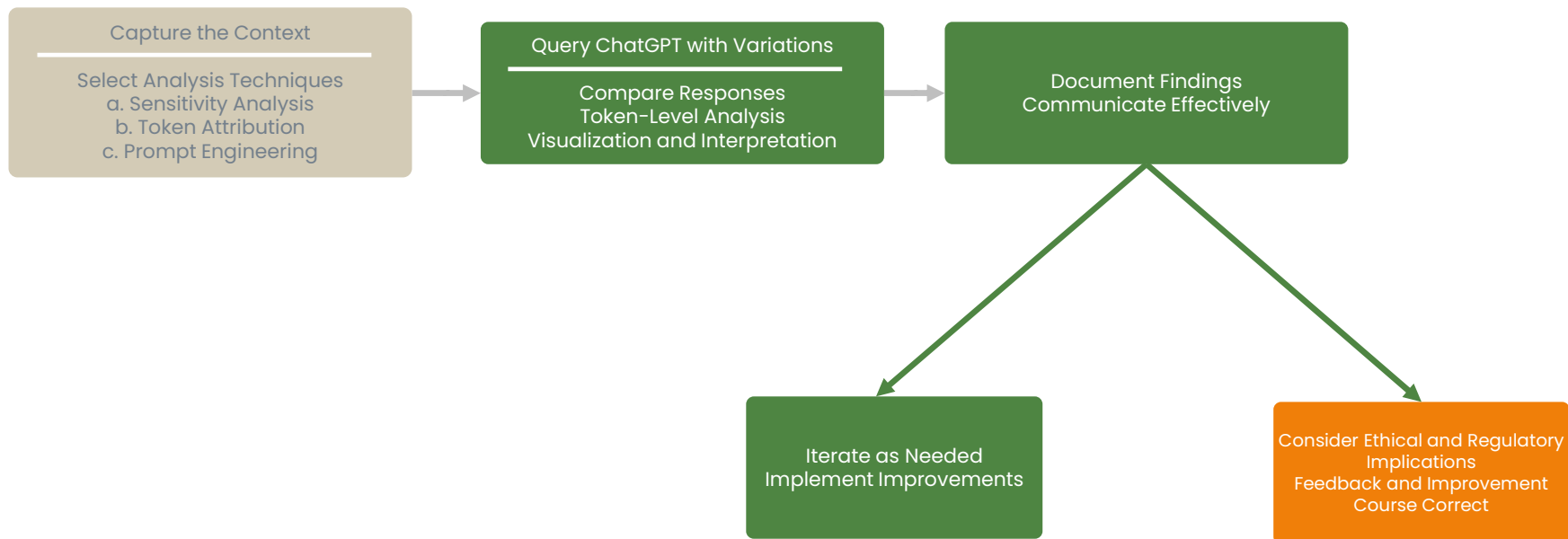


SETTING THE FRAMEWORK

Define Project Objectives and Scope; Integrate Generative AI Effectively & Ensure Data Availability and Quality

REGULATORY FRAMEWORKS

CANDIDATE: POST-HOC ANALYSIS ON CHATGPT-LIKE GEN AI



POSITIVE CONTROLS

DETECTING CONTROLS

FURTHER READING

REGULATING ARTIFICIAL INTELLIGENCE

Regulations

- Díaz-Rodríguez, Natalia, et al. "Connecting the dots in trustworthy Artificial Intelligence: From AI principles, ethics, and key requirements to responsible AI systems and regulation." Information Fusion (2023): 101896. <https://www.sciencedirect.com/science/article/pii/S1566253523002129>
- SOON, CAROL, and BEVERLY TAN. "REGULATING ARTIFICIAL INTELLIGENCE: MAXIMISING BENEFITS AND MINIMISING HARMS." (2023). https://lkyspp.nus.edu.sg/docs/default-source/ips/ips-working-paper-no-52_regulating-artificial-intelligence-maximising-benefits-and-minimising-harms.pdf
- Jones, Bronwyn, Ewa Luger, and Rhia Jones. "Generative AI & journalism: A rapid risk-based review." (2023). https://www.research.ed.ac.uk/files/372212564/GenAI_Journalism_Rapid_Risk_Review_June_2023_BJ_RJ_EL.pdf

Project Management Guidance

1.Stanford University's AI Project Management Framework:

- 1.[Stanford HAI AI Project Management Framework](#)

2.IBM AI Ladder:

- 1.[IBM AI Ladder](#)

3.Google AI's Machine Learning Development Process:

- 1.[Google AI - Machine Learning Crash Course](#)

4.PMI's Agile Practice Guide:

- 1.[PMI's Agile Practice Guide](#)

5.AI Ethics and Governance Guidelines:

- 1.[IEEE Global Initiative on Ethics of Autonomous and Intelligent Systems](#)
- 2.[EU Ethics Guidelines for Trustworthy AI](#)

6.Industry-Specific Guidelines:

- 1.**Healthcare:** The American Medical Association (AMA) has published guidelines on AI in healthcare, and various healthcare organizations provide AI-related resources.
- 2.**Finance:** Industry associations and regulatory bodies like the Financial Industry Regulatory Authority (FINRA) may provide guidelines for AI in financial services.
- 3.**Autonomous Vehicles:** Organizations like the Society of Automotive Engineers (SAE) offer guidelines for autonomous vehicle development.

7.Vendor-Specific Guidance:

- 1.**Amazon Web Services (AWS):** AWS provides AI project management resources through its [AI and Machine Learning](#) offerings.
- 2.**Microsoft Azure:** Microsoft offers AI project management guidance through its [Azure AI](#) services.



Q & A

OPEN DISCUSSION – LET'S SHARE OUR EXPERIENCES