Al Knowledge Foundation with Microsoft Azure

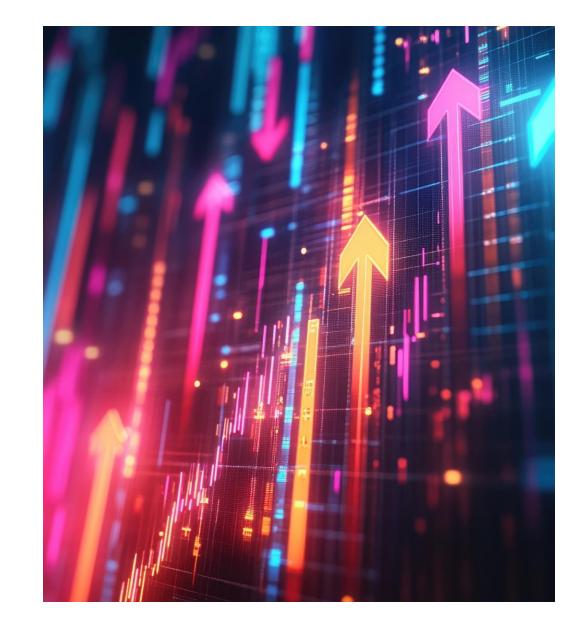
LAUNCH CONSULTING 2025



Why is Al Important?

EVEN WITH ALL THE HYPE, AI IS REAL

- Generative AI is driving the transformation of processes, businesses, and entire industries
- Things that took hours, now take minutes.
- Agentic automation will increase the pace and scale of everything
- Generative Al saves times, increases efficiency, and improves quality across almost every aspect of every business
- Create, research, revise, automate, produce, and serve outputs that accelerate processes and improve experiences
- Interact with users in a natural way through language, speech, vision, text and audio to increase adoption, engagement, and satisfaction



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What Drives the Business Value?

TOP 5 BENEFITS OF AN ENTERPRISE AI KNOWLEDGE FOUNDATION

1	Drive Growth	Unlocks new revenue opportunities by transforming enterprise data into actionable insights, enabling innovation, and accelerating Al-driven decision-making.
2	Save Costs	Reduces operational expenses by automating knowledge discovery, minimizing redundant work, and optimizing data storage and retrieval.
3	Increase Productivity	Enhances efficiency by providing employees with instant access to relevant knowledge, streamlining research, and improving collaboration.
4	Reduce Risk	Strengthens compliance, security, and governance by ensuring accurate, up-to-date, and well-managed enterprise knowledge.
5	Enhance Customer & Employee Experiences	Delivers personalized experiences, improves customer support with Al-driven knowledge retrieval, and empowers employees with Al-assisted decision-making.

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What is an Al Knowledge Foundation?

An Al Knowledge Foundation powered by Azure Al is a modern platform that transforms enterprise data into an intelligent, searchable, and Al-powered asset. It integrates large language models (LLMs), advanced indexing, embedding, and vectorization techniques to structure and enhance data, making it easily accessible for Al-driven applications. By curating, storing, and indexing **knowledge from across the** organization, it ensures that Al models and agentic frameworks can efficiently retrieve, understand, and apply relevant information in real time.

This foundation unlocks significant business value by enabling faster decision-making, automating knowledge discovery, and enhancing productivity across teams. It reduces time spent searching for information, streamlines workflows, and improves customer and employee experiences with Al-powered insights and recommendations. By ensuring **data is organized**, **contextualized**, **and ready for Al**, businesses can drive innovation, scale automation, and gain a competitive edge in an increasingly digital and Al-driven world.



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Solid Foundational Approach



CLOUD

FOUNDATION





AI READY DATA PLATFORM

The first step to The next step in the enabling an Al First transformation enterprise is to adopt journey is to the cloud. Our Cloud implement an Al Foundations offering Ready Data Platform sets the stage to take that delivers highquality, cleaned, advantage of the power of modern standardized, and cloud services in a governed enterprise secure and scalable. data to power AI and analytics.



Once you have an Al Ready Data Platform it is critical to curate your enterprise data for use in AI models, and agentic frameworks to unlock AI-powered experiences, applications, and automation.



AI AGENTS AND AUTOMATION

With access to modern cloud services, and your enterprise data ready for use by AI models and agentic frameworks it is now possible to transform enterprise operations through agentic task and process automation.





AI EXPERIENCES AND APPLICATIONS

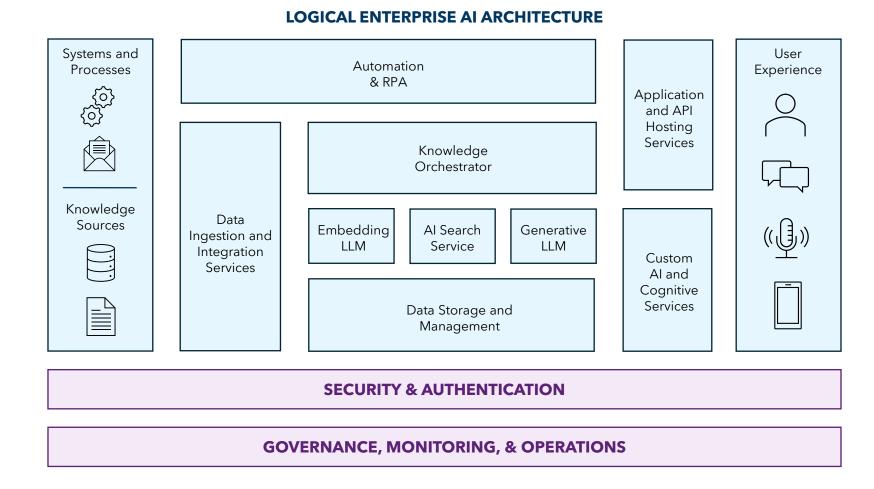
Leverage your new Al and Agentic capabilities to implement Alpowered applications and innovations that transform experiences for employees and customers through self-service and efficient access to information.

Enterprise AI Knowledge Foundation

Establishing your Al platform is a critical component of the methodology

- Design to support the repeatable processes
 & unique use-cases
- Critically consider
 Hyperscaler platforms
 vs point solutions

Consistency in this area will reduce friction and increase ROI



Components of an Azure Al Knowledge Foundation





INGEST & INTEGRATE

Bring enterprise data and documents into the platform

- Azure Data Factory
 Scalable data pipeline orchestration (ETL/ELT)
- Logic Apps / Power Automate
 No-code integration from apps like SharePoint
- Microsoft Graph API
 Extract documents from Microsoft 365 (Teams, OneDrive, Outlook)
- Event Grid / Event Hubs
 Real-time data ingestion
 and streaming scenarios





CURATE & PREPARE

Enrich, classify, and organize data to make it Al-ready

- Azure Synapse / Microsoft
 Fabric
 Unified data engineering
 - Unified data engineering, analytics, and warehousing
- Azure Purview
 Data cataloging, lineage tracking, and governance
- Azure Cognitive Services
 OCR, language detection, entity recognition, key phrase extraction
- Azure OpenAl Service
 Semantic enrichment using LLMs
 (e.g., embedding, auto-tagging)
- Azure Machine Learning
 Train and deploy custom models for classification or content filtering





STORE & INDEX

Organize and store knowledge for powerful, secure search

- Azure Data Lake Storage Gen2
 - Scalable and secure data and document storage
- Azure Cosmos DB / Azure SQL Database
 - For structured metadata and knowledge graphs
- Azure Al Search (Cognitive Search)
 - Full-text and semantic vectorbased indexing
- Blob Indexer with Cognitive Skills

Automated metadata and content extraction





GOVERN, SECURE, AND MONITOR

Ensure compliance, observability, and enterprise-grade security

- Microsoft Purview
 Data governance, classification, and lifecycle policies
- Azure Monitor / Log Analytics
 Operational monitoring, usage analytics, and auditing
- Azure Key Vault
 Secure management of credentials, keys, and secrets
- Microsoft Entra ID and Role-Based Access Control
 Manage access securely across

Manage access securely across roles and teams

The Potential of Azure Al Knowledge Foundation

- UNLOCK ENTERPRISE KNOWLEDGE AND INSIGHTS
 Aggregate structured and unstructured data across the organization.
 Azure Services: Azure AI Search (indexes and retrieves enterprise knowledge) and Azure
 OpenAI Service (summarizes and reasons over data)
- ACCELERATE AI AND AUTOMATION INITIATIVES
 Provide curated, Al-ready data to power AI search, copilots, and autonomous agents.
 Azure Services: Azure Machine Learning (train custom AI/ML models) and Azure AI
 Studio (build copilots and intelligent agents)
- IMPROVE DECISION-MAKING AND INNOVATION
 Deliver faster, more accurate access to trusted information for employees and systems.

 Azure Services: Azure Cognitive Services (analyze text, images, documents) and Azure Data Factory and Azure Synapse Analytics (integrate and analyze data at scale)
- ENHANCE GOVERNANCE, SECURITY, AND COMPLIANCE
 Ensure enterprise knowledge is secure, compliant, and responsibly governed.

 Azure Services: Microsoft Purview (data governance and cataloging) and Azure Security Center (security management)
- DRIVE OPERATIONAL EFFICIENCY AND COST REDUCTION
 Minimize time spent searching, gathering, and validating information.
 Azure Services: Azure Data Lake Storage (cost-effective storage of curated knowledge) and Azure Functions (serverless automation of ingestion and enrichment)









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Azure Al Knowledge Foundation Key Use Cases

Empowering the Intelligent Enterprise

1. ENTERPRISE SEMANTIC SEARCH

Empower employees, customers, and partners to find the right information instantly across millions of documents, emails, knowledge bases, and databases.

Azure Services: Azure Cognitive Search, Azure Al Document Intelligence

4. AI-POWERED KNOWLEDGE MANAGEMENT

Curate, organize, and maintain structured and unstructured data to create a living enterprise knowledge graph, ready for Al consumption and use.

Azure Services: Azure Cognitive Search, Microsoft Purview, Azure OpenAl Service

2. RETRIEVAL-AUGMENTED GENERATION (RAG) FOR AI APPLICATION

Enhance generative AI models by grounding outputs in real enterprise data, ensuring answers are accurate, traceable, and based on trusted knowledge sources.

Azure Services: Azure OpenAl Service, Azure Al Search, Azure Al Studio

5. DOCUMENT PROCESSING AND AUTOMATION

Automate extraction, classification, and summarization of contracts, invoices, research papers, and customer communications to reduce manual effort.

Azure Services: Azure Al Document Intelligence, Azure Form Recognizer, Azure Al Services

3. PERSONALIZED AI ASSISTANTS AND COPILOTS

Build domain-specific copilots that understand enterprise knowledge and assist employees with complex workflows, research, or customer support.

Azure Services: Azure OpenAl Service, Azure Al Studio, Azure Machine Learning

6. DATA-DRIVEN INSIGHTS AND PREDICTIVE ANALYTICS

Feed curated, enriched knowledge into analytics and machine learning models to drive smarter decision-making, forecasting, and innovation.

Azure Services: Azure Machine Learning, Azure Synapse Analytics