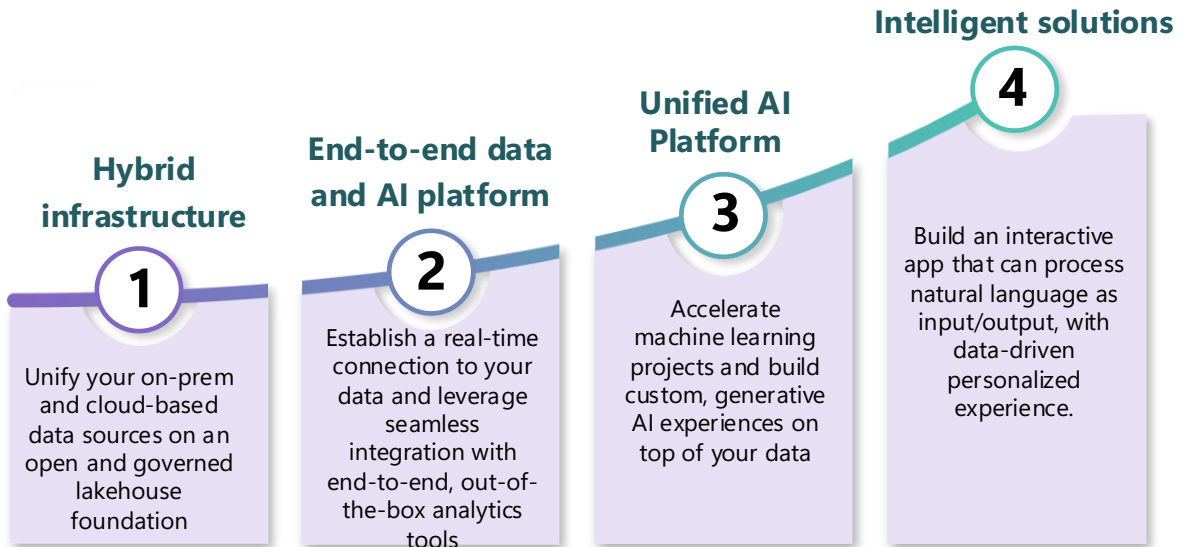# Spyglass Constellation

YOUR UNIFIED AI & DATA PLATFORM
FOR INNOVATION AND GROWTH

SPYGLASS MTG

Spyglass Constellation is your launchpad for accelerating and simplifying Data and AI transformation. By combining Spyglass' AI GENIE and Fabric LOOM, it provides a comprehensive **foundation for developing, deploying, and managing advanced AI capabilities at scale**. With its ability to unlock the full value of your data, Constellation helps organizations rapidly build and scale custom AI applications, machine learning models, Retrieval-Augmented Generation (RAG), batch RAG, and Agentic solutions.

Purpose-built for industries like **Higher Education, Health and Life Sciences, Financial Services, Insurance, Manufacturing, and Retail**, it delivers the tools, scalability, and innovation needed to thrive in today's AI-driven world. **With Spyglass Constellation, your Data and AI journey becomes simpler, smarter, and faster.**

Hybrid infrastructure

1

Unify your on-prem and cloud-based data sources on an open and governed lakehouse foundation

End-to-end data and AI platform

2

Establish a real-time connection to your data and leverage seamless integration with end-to-end, out-of-the-box analytics tools

Unified AI Platform

3

Accelerate machine learning projects and build custom, generative AI experiences on top of your data

Intelligent solutions

4

Build an interactive app that can process natural language as input/output, with data-driven personalized experience.

Key Benefits

Enhance Data Insights:
- Unlock Hidden Value: Leverage AI to extract deeper insights from your enterprise data.
- Advanced Analytics: Use custom models and RAG applications for smarter decision-making.
- Scalable Solutions: Adapt insights to meet growing data and business needs.

Rapid Development of RAG & AI Applications:
- Streamline Knowledge Retrieval: Build RAG Apps to deliver accurate, context-aware responses using your enterprise data.
- Seamlessly Integrate Data Sources: Connect to diverse data repositories, including structured and unstructured data.
- Accelerate Deployment: Utilize pre-built frameworks and tools to reduce time and bring RAG solutions to production faster.

Customize machine learning models:
- Tailor models: Customize for predictive maintenance, fraud detection, or sentiment analysis.
- Use Azure tools: Develop models with Azure AI Foundry, Machine Learning, Databricks, and Fabric.
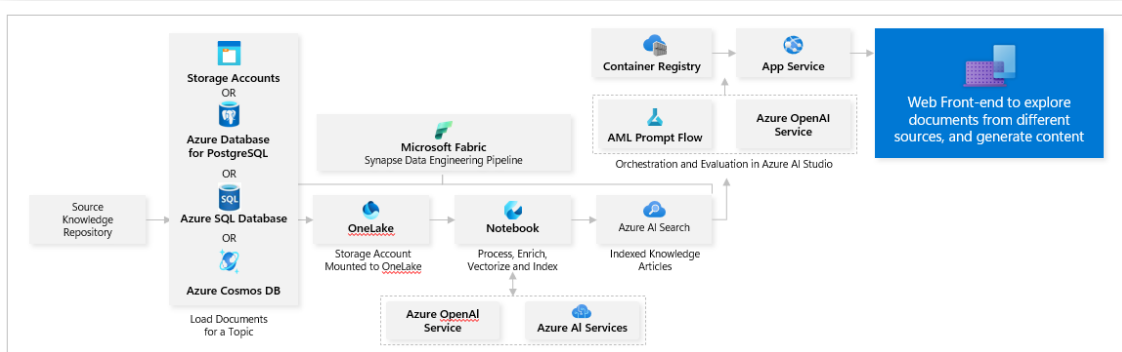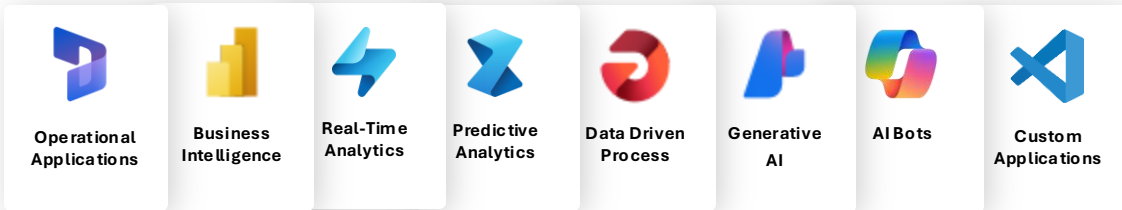- Train using enterprise data: Base models on data in OneLake.

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Spyglass Constellation is more than just a solution accelerator—it's your strategic partner in driving innovation, reducing costs, and staying ahead in the ever-evolving AI landscape.

Operational Applications	Business Intelligence	Real-Time Analytics	Predictive Analytics	Data Driven Process	Generative AI	AI Bots	Custom Applications	

(Architecture diagram)
- Source Knowledge Repository
- Storage Accounts OR Azure Database for PostgreSQL OR Azure SQL Database OR Azure Cosmos DB — Load Documents for a Topic
- OneLake — Storage Account Mounted to OneLake
- Microsoft Fabric — Synapse Data Engineering Pipeline
- Notebook — Process, Enrich, Vectorize and Index
- Azure AI Search — Indexed Knowledge Articles
- Azure OpenAI Service
- Azure AI Services
- Container Registry
- App Service
- AML Prompt Flow
- Azure OpenAI Service
- Orchestration and Evaluation in Azure AI Studio
- Web Front-end to explore documents from different sources, and generate content

SPYGLASSMTG

Microsoft Solutions Partner
Infrastructure Azure
Data & AI Azure
Digital & App Innovation Azure
Modern Work
Security

10 Advantages of Spyglass Constellation

1. **Accelerated Time-to-Market:** Pre-built components and seamless integration quickly develop and deploy AI, machine learning, and generative AI solutions, achieving results faster.

2. **Unified Data & AI Ecosystem:** Consolidate your Data, AI, machine learning, and generative AI initiatives into a single platform with robust data orchestration, governance, and infrastructure management for complete efficiency.

3. **Flexibility for Diverse AI Use Cases:** Supports a wide range of AI applications, from predictive analytics to vision, to natural language processing, empowering innovation across industries.

4. **Seamless Machine Learning Compatibility:** works with ML platforms like Databricks, offering scalable data engineering, machine learning, and analytics tools for high performance and flexibility.

5. **Cost Efficiency and Scalability:** Save time and resources with a pre-built solution accelerator. Spyglass Constellation scales with your organization's needs, ensuring long-term cost efficiency.

6. **Data Quality, Lineage, and Compliance:** Constellation, built on Medallion principles, ensures your data pipelines maintain top standards of quality, lineage, security, and compliance throughout their lifecycle.

7. **Streamlined Infrastructure Management:** Reduce complexity with pre-configured infrastructure provisioning and orchestration, allowing your teams to focus on innovation rather than operational overhead.

8. **Future-Ready Foundation:** With a robust and flexible base for future AI growth, Constellation enables your organization to adapt quickly to evolving technologies and market demands.

9. **Enhanced Collaboration Across Teams:** Constellation unifies data and AI workflows, fostering collaboration between engineers, data scientists, and the business for seamless communication and faster results.

10. **Security and Governance at the Core:** Spyglass Constellation prioritizes security and governance, giving you peace of mind that your AI initiatives meet enterprise-grade standards for data protection and compliance.