Spyglass Constellation
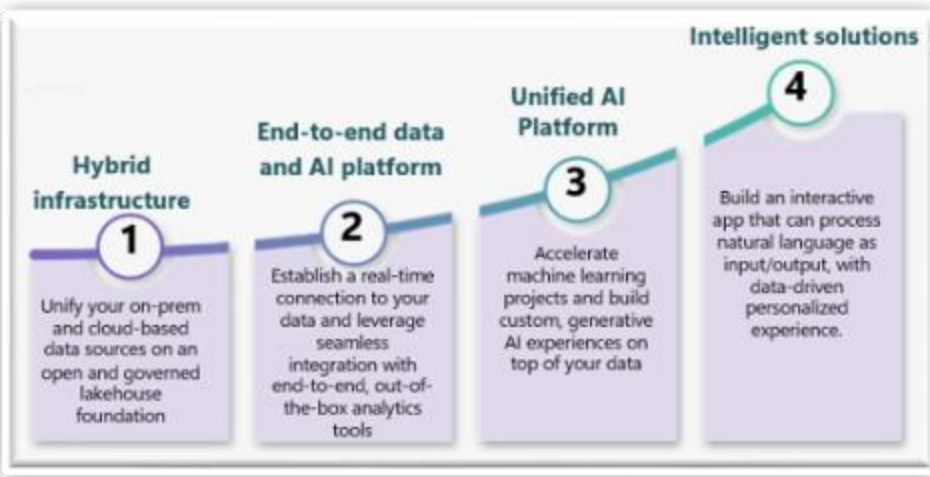## for Academic Research
YOUR UNIFIED AI & DATA PLATFORM

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Spyglass Constellation is your launchpad for accelerating, simplifying, and governing Data and AI transformation in the academic research sector. 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 academic institutions rapidly build and scale custom AI applications, machine learning models, Retrieval-Augmented Generation (RAG), batch RAG, and Agentic solutions.

Designed specifically for sectors such as Higher Education and Research, it provides the necessary tools, scalability, and innovation to succeed in the current AI-centric environment. The platform also ensures that data governance, quality, lineage, and compliance are maintained throughout the data lifecycle. With specialized expertise in developing AI solutions and integrating with systems like EMR/EHR, EPIC, Blackboard, Canvas, Anthology, and Grant Databases, Spyglass Constellation simplifies, enhances, and accelerates your Data and AI experience.

Key Benefits

Enhance Data Insights:
- **Unlock Hidden Value:** Leverage AI to extract deeper insights from research data, academic publications, and experimental results.
- **Advanced Analytics:** Use custom models and RAG applications for smarter decision-making in research methodologies, hypothesis testing, and academic studies.
- **Scalable Solutions:** Adapt insights to meet growing data and complex research needs.
- **MetaData Creation:** Addition of new terms, tags, and classifications to get more out of your research data.
- **Data Governed:** Enforce catalogs, domains, policies, and quality to maintain data integrity and compliance.

Rapid Development of RAG & AI Applications:
- **Streamline Knowledge Retrieval:** Build RAG Apps to deliver accurate, context-aware responses using your research data and academic documents.
- **Seamlessly Integrate Data Sources:** Connect to diverse data repositories, including structured and unstructured academic data.
- **Accelerate Deployment:** Utilize pre-built frameworks and tools to reduce time and bring RAG solutions to production faster, advancing research projects and academic inquiries.
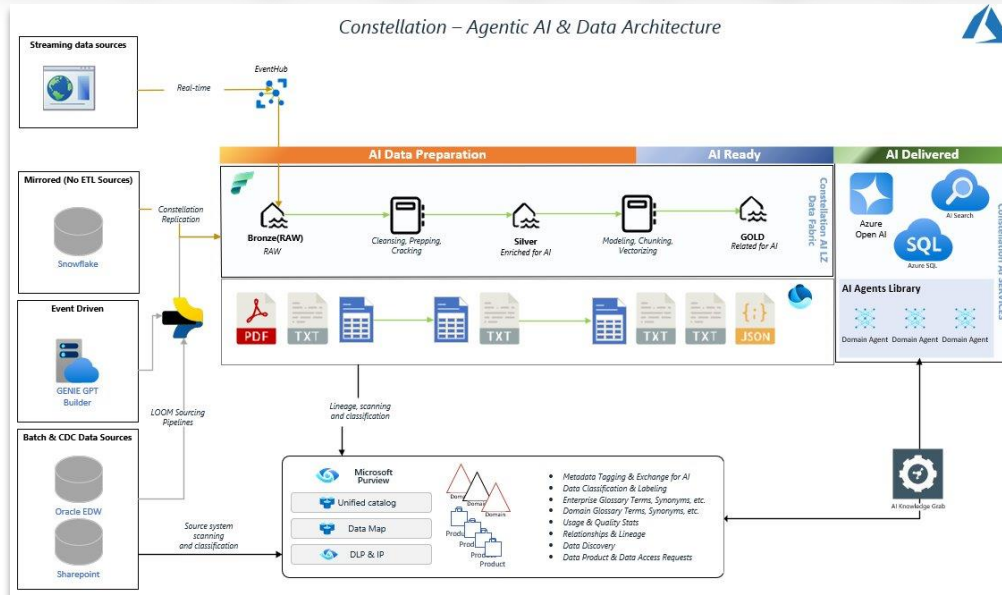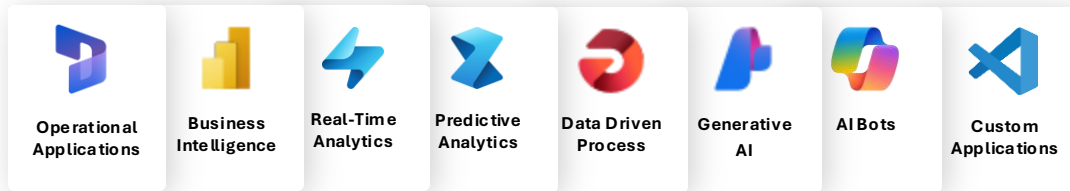
Customize machine learning models:
- **Tailor Models:** Customize for predictive analytics, research outcome predictions, or sentiment analysis of academic literature.
- **Use Azure Tools:** Develop models with Azure AI Foundry, Machine Learning, Databricks, and Fabric.
- **Train Using Research Data:** Base models on extensive academic and research data in OneLake.

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Microsoft Solutions Partner

Infrastructure Azure
Data & AI Azure
Digital & App Innovation Azure
Modern Work
Security

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

Constellation – Agentic AI & Data Architecture

Key Advantages of Spyglass Constellation

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

- **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.

- **Flexibility for Diverse AI Use Cases:** Supports a wide range of AI applications, from predictive analytics to natural language processing, empowering innovation in research methodologies and academic studies.

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

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

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

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

- **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, crucial in academic research.