OvalEdge Academy Transcript:
OvalEdge Overview

Video: OvalEdge Overview

OvalEdge is a next-generation data catalog and data governance platform. With the platform, companies can deploy end-to-end data governance and provide their users with the tools they need to innovate.

A three-pronged data governance solution, OvalEdge combines an advanced data catalog with end-to-end data governance capabilities and self-service tools.

The OvalEdge data catalog connects all of an organization's various data sources, including applications, ETLs, data warehouses, visualization, AI, and ML tools. OvalEdge collects the metadata from these systems while maintaining connectivity, meaning it continues to capture metadata as and when it is required.

Because of the connectivity enabled by OvalEdge, users can interact with metadata in real-time. Ultimately, this connectivity means OvalEdge is optimized for many use cases.

OvalEdge Architecture
OvalEdge architecture is underpinned by a dedicated application server and two databases: MySQL and Elastic Search. On top of this is a web layer. However, ultimately, the power of OvalEdge lies in its algorithms.

OvalEdge's AI-powered algorithms are the foundational layer of the platform's architecture and have various functions, including:

Crawling: Crawling involves getting the existing metadata for all the systems at all levels, such as the table and column name, its type, length, and many more.

Profiling: This algorithm computes the statistics about the data. For example, it might refer to the minimum and maximum values of a particular table or column.

Building lineage: This algorithm identifies where data has come from (source) and where it goes (destination). It achieves this by parsing the source code from ETL, visualization, and other systems. As this data is parsed, the algorithm builds the lineage.

OvalEdge Data Governance Programs
OvalEdge enables any organization committed to instilling end-to-end data governance the ability to do so quickly and affordably. Focussing on three core data governance programs, data access, data literacy, and data quality.

For the data literacy program, OvalEdge takes a step-by-step approach to enhance metadata, build standards with a universal business glossary, and then implement it throughout an organization.

The data access program focuses on providing access to data to everyone while ensuring the various privacy compliance requirements like inventory and access security of all PII data, and implementation of compliance such as the right to forget, the right to know, data retention policies, record of processing activities (ROPA), and more.

OvalEdge focuses on a complete data quality improvement life cycle for the data quality program. You can identify data quality problems, find root causes, fix, control, and manage issues.

OvalEdge provides all the tools and step-by-step implementation mechanisms for all these programs.

Self-Service in OvalEdge
Another key feature of OvalEdge is self-service. Dedicated self-service tools make it easier for users to access data assets and increase adoption in an organization. These tools are optimized for everyone in your organization and include:
- Data discovery tools for business users
- Collaborative analytics tools for data scientists
- Privacy tools for privacy compliance officers
- Comparison tools for developers
- Impact analysis for data engineers

The OvalEdge Philosophy
At its heart, the OvalEdge philosophy is about empowering users to do more with data. The OvalEdge data catalog is easy to use, accessible, and intuitive. Lightweight by design, OvalEdge only captures metadata, not full data assets, making it easy to implement. And because connectivity is live, it's always possible to reach out to source systems to collect new metadata. These two core factors make OvalEdge unique and extremely powerful for a variety of use cases.

Thanks for watching!