Odin™ Insight Generator

Intelligent Data Fusion

Automation for Speed to Insights

Illumination Works' Odin insight generator applies machine learning (ML) and natural language processing (NLP) innovation to perform intelligent data fusion and produce robust analytics for rapid understanding, actionable insights, and decision advantage.

Odin offers artificial intelligence (AI)-enabled data processing and decision support with reliable, repeatable processes to ease the manual workload of textual data processing, review, and insight extraction.

■ Rapidly Process Complex Data Sets
Quickly extract and load immense volumes of technical and engineering documentation

■ Curate & Organize Data for Understanding
Empower quick understanding of complex data sets with human-centric algorithms
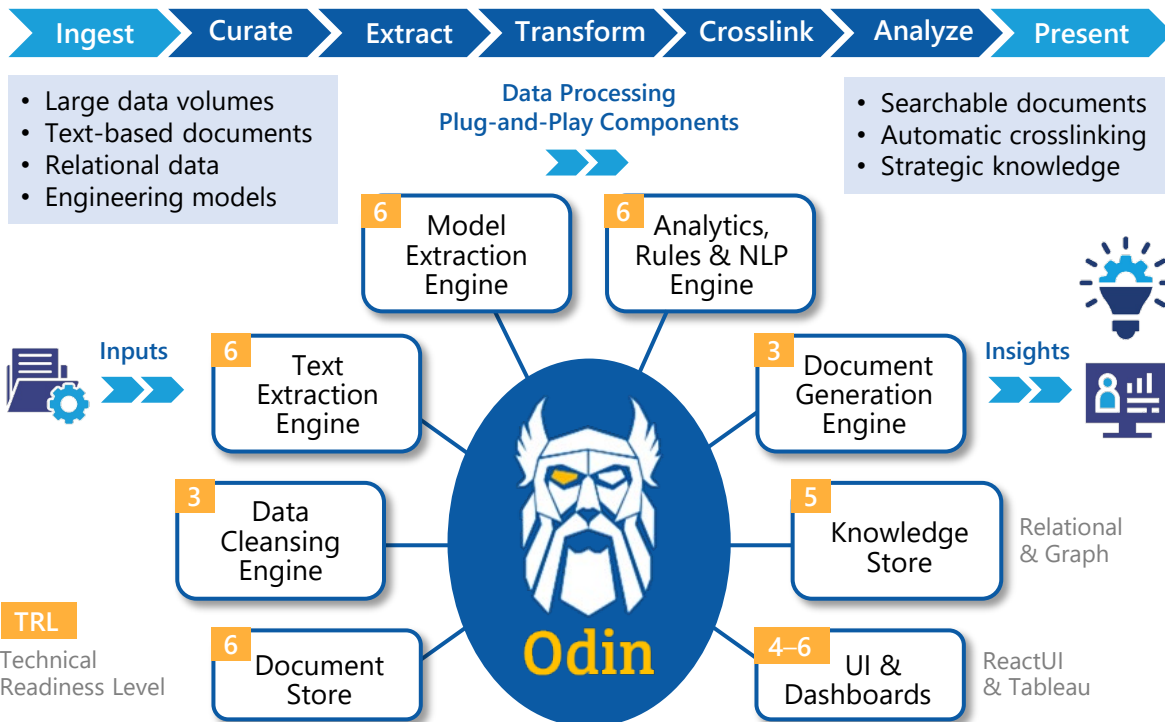
■ Assign Data Connections & Linkages
Ensure trusted, linked data for precision in downstream reporting and decision superiority

■ Improve Operational Efficiencies
Mitigate risk inherent in manual processes, elevate accuracy, improve costs, and enhance readiness

Customizable Modular Framework & Process Automation

Ingest ▶ Curate ▶ Extract ▶ Transform ▶ Crosslink ▶ Analyze ▶ Present

- Large data volumes
- Text-based documents
- Relational data
- Engineering models

Data Processing Plug-and-Play Components

- Searchable documents
- Automatic crosslinking
- Strategic knowledge

Odin™

Inputs

6	Model Extraction Engine
6	Analytics, Rules & NLP Engine
6	Text Extraction Engine
3	Document Generation Engine
3	Data Cleansing Engine
5	Knowledge Store	Relational & Graph
6	Document Store
4–6	UI & Dashboards	ReactUI & Tableau

Insights

Odin

TRL
Technical Readiness Level

- Robust
- Intelligent
- Efficient
- Flexible
- Extensible
- Accurate

Customizable component combinations to solve a variety of business use case challenges

Functional Use Cases

Our team applies **Odin's AI-driven textual data processing, review, and insight extraction processes** across domains, functions, and platforms to significantly **reduce end user task time and decrease cognitive burden.**

Data Rights Verification *Weapon Systems*

Provided data surveillance and data rights markings verification to ensure contract requirements are delivered and accurately marked.

- Produce robust, richly formatted data
- Automate textual data connections/linkages
- Provide contractual obligation understanding

Data-Driven Budget Planning *Financial Management*

Created cohesive, consistent, and data-driven way to equitably allocate annual budget execution planning across business units.

- Organize/link funding requests, contracts, budget
- Create predictive analytics to compare like services, identify anomalies, forecast budget items
- Build intuitive visualizations to ease budget planning

Acquisition Lifecycle Management *Program Management*

Implemented enabling technology for program management offices to develop and manage acquisition milestone reports, reviews, and requirements.

- Mine metadata and crosslink, organize, curate, and version control documents
- Generate document content supplemented with human-in-the-loop user interface
- Develop intuitive visualizations to understand program health, monitor/version data, manage users

The Odin Insight Generator is primed for customization and deployment into any organization wanting to accelerate and optimize document processing for operational efficiencies.

Component Customizations

Odin is designed with flexibility at its core. Components are synergistically combined to best support business objectives. To date, our team has built **three Odin customizations**, each targeted to address specific client use case challenges.

Customization

Technical Document Surveillance & Contract/Vendor Compliance

Automate verification of accurate and compliant data rights assertions and markings across vendors

Customization

Predictive Modeling & Comparative Analyses

Identify and correct erroneous data and implement predictive models and comparative analyses

Customization

Data Curation, Crosslinking & Document Generation

Automate document creation and intuitive reporting for improved product support and program management

Contact Us Today

Reach out to learn how Odin can be customized to solve your toughest use case challenges!

Jan Turkelson
Senior Vice President
jan.turkelson@ilwllc.com

Janette Steets, PhD
Director of Data Science
janette.steets@ilwllc.com

Scott Rutledge
Government Director
scott.rutledge@ilwllc.com

www.ilwllc.com

YouTube

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