

Knowledge Graph Neural Network

A modular, open-source (MOSA) Kubernetes-native AI data platform, GPU-free and non-proprietary, featuring multi-modal ingestion, auto-ETL, RDF knowledge graphs, real-time vectorization, SBOM-enabled governance, and a no-code Fusion UI for secure, scalable, contextualized intelligence.

Key Capabilities

- Automated Data Aggregation: Ingests structured, semi-structured, and unstructured data
- Unified Data View: Integrates disparate sources into a single enriched knowledge graph
- Automated Entity Correlation: Discovers and links individuals, entities, topics, and patterns
- Advanced Link Analysis: Maps complex relationships to uncover hidden connections
- Graph Analytics & Pattern Discovery: Identifies clusters, associations, influence pathways
- Predictive Modeling & Anomaly Detection:
 Detects early indicators of risk or intent and outliers
- **High-Dimensional Contextual Analysis:** Combines semantic relationships
- SBOM-enabled governance

Key Metrics

- Processed OBBBA 150,000-word document in 35 minutes
- Generated 3,046 nodes and 764 links
- 95–145× faster than manual ETL
- 30–50× **faster** than LLM-assisted workflows
- Minimal oversight required
- Reduces manual effort by 80%
- Supports secure, air-gapped environments.

Industries and Use Cases

Defense and Intelligence

- Fuses intelligence systems, sensor feeds, investigations, and text sources.
- Real-time situational awareness, anomaly detection, predictive insights.

Al Use Cases

- LLM Grounding: Reduce hallucinations and improve reasoning accuracy.
- Enterprise BI & Dashboards: Unified, contextualized data across silos.
- Edge Al: GPU-free, energy-efficient deployments.
- Legacy System Unlock: Extract and contextualize data from SAP, DB2, Oracle, mainframes.

Supply Chain

 Integrates IoT and operational systems for predictive maintenance, digital twins, logistics optimization.

Fraud, Waste, & Abuse

 Detects financial crime, automates claims verification, enhances risk management.

Financial Services

- Connects siloed customer and transaction data.
- Automates fraud detection, threat intelligence, and claims processing.
- Enhances compliance and personalization.













KGNN Automated Knowledge Engine for Enhanced AI Reasoning

The Equitus Knowledge Graph Neural Network (KGNN) revolutionizes data analytics with context-aware intelligence, extracting entities and relationships across all data types, enabling neural graph reasoning, Al-driven anomaly detection, and seamless integration through an open, sovereign architecture, free from lock-in and black-box constraints.

Key Differentiators

Exclusive provider of Equitus' KGNN licensing and integration rights for Federal and DoD

Zero-trust integration

MOSA-aligned & SBOM-compliant from inception

Proven expertise combining defense, intelligence, and Big Four consulting experience

WOSB with sole-source authority, streamlining procurement and accelerating mission delivery

Trusted partner delivering secure, sovereign, and fully compliant data solutions

