Neo4j Graph Data Science Library

Harness the Predictive Power of Relationships

Graph data science uses the relationships and network structures in your data to help data scientists address complex questions about system dynamics and group behavior. The Neo4j Graph Data Science™ Library equips data scientists with a customized, flexible data structure for global computations and a repository of powerful, robust algorithms.

What is the Graph Data Science Library?

The Neo4j GDS Library provides data scientists with a rich toolkit offering a flexible, analytics-designed data structure for global computations, and a library of parallelized, algorithms that quickly compute over very large graphs.

Graph algorithms are unsupervised machine learning methods and heuristics that learn and describe the topology of your graph and are highly parallelized to compute results over tens of billions of nodes.

The First Enterprise Framework for Graph Data Science

Neo4j Graph Data Science Library delivers:

- Answers to previously intractable questions and use the predictive power of relationships for analytics and machine learning
- Scalable to tens of billions of nodes with optimized, parallelized algorithms and a compact footprint
- Performance of a graph-specific analytics workspace for computation with a native graph database
- Efficient in-memory graph model that loads data in parallel, flexibly aggregates and reshapes underlying data models
- Friendly interface with flexible graph reshaping in-memory, logical guardrails and a graph visualization tool
- Production features from the graph leader with dedicated graph data science support
Neo4j is the leading graph database platform that drives innovation and competitive advantage at Airbus, Comcast, eBay, NASA, UBS, Walmart and more.

Thousands of community deployments and more than 400 customers harness connected data with Neo4j to reveal how people, processes, locations and systems are interrelated. Using this relationships-first approach, applications built using Neo4j tackle connected data challenges including artificial intelligence, fraud detection, real-time recommendations and master data. Find out more at Neo4j.com.

Questions about Neo4j?
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