

Introducing RelationalAI

The AI coprocessor for your data cloud



Bring workloads to the data





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AI/ML











Engineering

Applications

Governance

Collaboration

Data Warehouse

Data Lake Security



KelationalAI

Is my data up to date?

Are these isolated solutions **secure**?

Do I have the right access controls?

Can these solutions scale?

Realities of integrating with solutions that are neither cloud-native, nor relational



Data always up-to-date

Same security

Same governance

Consistent definitions

Limitless scale

RelationalAl offers a different approach

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RelationalAI brings graph analytics and other composite AI workloads to your data...



KelationalAI

...extending your data cloud with the industry's first Al Coprocessor





RelationalAI is the **AI coprocessor** for **your data cloud** with **Relational Knowledge Graphs**





What do we mean by AI?

🔆 Relational AI



Source: Gartner 2021, 2022

What do we mean by AI?

Composite AI: A combination of different techniques needed to improve decision-making effectiveness (Decision Intelligence)



What do we mean by Coprocessor?





What do we mean by coprocessor?

Requirements Same Governance Same Architecture Same Paradigm





Embedded in your Data Cloud

Inside security perimeter, with the same governance, and without the need to synchronize data with external workload-specific point band-aids



Cloud-native

The new table stakes: architected for scale and flexibility



Relational

Proven and trusted paradigm. A universal representation for data and knowledge



RelationalAI customer benefits

000 Power **better decisions** Complete your **data** Build intelligent Drive efficiencies and cloud with relational with enriched semantic applications on a datasavings models centric foundation knowledge graphs

Benefits of RelationalAI compared to alternatives

RelationalAI brings together the best of relational technology and knowledge graphs to create an AI coprocessor that expands your data cloud with new capabilities.



Cloud-native

Get zero-copy cloning, workload isolation, and effectively infinite storage and compute.



Graphs as Relations

Represent graphs and relational data models as atomic, irreducible relations.



Novel join algorithms

Benefit from the latest algorithms that dramatically speed up graph traversal, multi-way joins, and complex queries without sacrificing performance.



Data cloud Integrated

Gain support for new workloads while adhering to the same architecture, paradigm, and governance as your Data Cloud.



Graph Analytics

Get native support for a wide range of algorithms for common graph analytics tasks including centrality, community detection, similarity, and path analysis.



Rules + Business Logic

Embed and execute rules and business logic in the knowledge graph. Compose applications as modular units of logic to drive consistency and reusability across the organization.



Optimization

Express and experiment with optimization models to solve business objectives with any open source or commercial solver.



Familiar Tooling

Reason over data with tailored SQL functions and procedures that provide seamless access to knowledge graphs.





RelationalAI enables you to answer more questions within your **Data Cloud**

Trusted by customers



"Acting as an AI coprocessor, RelationalAI enables us to enhance our semantic models and perform **sophisticated analysis like graph analytics to understand latent patterns** in our data." - Mark Austin, VP of Data Science and AI EY

"The ability of RelationalAI to compress business rules and scale processing is stunning. Using their relational knowledge graph system, we slashed legacy code by 90% and reduced processing times from over a month to several hours." - Tax Technology Leader, EY Financial Services Office



Get started today with graph analytics





Use graph algorithms to uncover hidden meaning







Use cases

DATA ENGINEERING Entity Resolution

Use a knowledge graph to "see" through noisy data to find related information and duplicated data

GRAPH ALGORITHMS





PROBLEM

Difficulty identifying related or duplicated entities/accounts in data

SOLUTION

RelationalAl's knowledge graph clarifies connections

People and companies have multiple personas and types of interactions, which spawns multiple accounts and entities.

It's time-consuming to identify related entities within aggregated data from multiple channels. Knowledge graphs capture and surface relationships between data, uncover duplicate data and overlapping personas (e.g., Is this Elon Musk the person or the CEO? CEO of which business?).



Fraud detection

Build graph-based features to improve your fraud model predictions

GRAPH ALGORITHMS





PROBLEM

Fraud is a major concern across industries. Losses in telecom alone total \$40B+/year globally

Machine learning methods often don't include graph-based features, which can expose important relationships in data and enhance model precision and recall.

SOLUTION

RelationalAI's graph analytics capabilities identify ML features

Graph-based features boost model performance, yielding significant business impact.



TRACK & TRACE

Supply Chain Risk Management

Mitigate risks through a comprehensive understanding of the relationships across your supply chain

GRAPH ALGORITHMS







PROBLEM

Difficulty anticipating and managing supply chain disruptions due to lack of visibility

Traditional approaches don't capture the interdependencies and intricacies of today's complex supply networks.

Lack of scenario planning and limited visibility hinders efforts to plan for unexpected events.

SOLUTION

RelationalAI's knowledge graph provides context and relationship mapping across data sources

Data from various sources and types provide a holistic view of supply chain operations to identify risks faster.

Scenario analysis and predictive analytics enable managers to forecast and mitigate potential risks.



INVESTING

Investment Opportunities

Identify new investment opportunities, armed with data from various sources in a unified single view

GRAPH ALGORITHMS







Community Detection

Centrality Link Prediction



PROBLEM

Finding the right investment opportunity is time-consuming and expensive

Manual data processing, analysis and reporting are difficult to manage and scale across an organization

SOLUTION

RelationalAI's Knowledge Graph provides graph of opportunities

Knowledge graph surfaces key relationships for fast insights in context of what's important. Data is always up to date and scales to fit your needs.



Customer 360

Uncover important relationships and connections to improve recommendations

GRAPH ALGORITHMS







Community Detection

Centrality Similarity



PROBLEM

Personalization is difficult without understanding customer connections

SOLUTION

RelationalAl's Knowledge Graph identifies key relationships

Traditional solutions often don't include graph-based knowledge, which can expose important relationships among customers and enhance understanding of preferences. Knowledge graph surfaces key relationships and spheres of influence to enable a new level of personalization.



Bring workloads to your data





All data, all workloads

🔆 Relational AI

Visit <u>www.relationalai.com</u> to learn more

Contact RelationalAI at team-sales@relational.ai

Next Steps



Thank You

