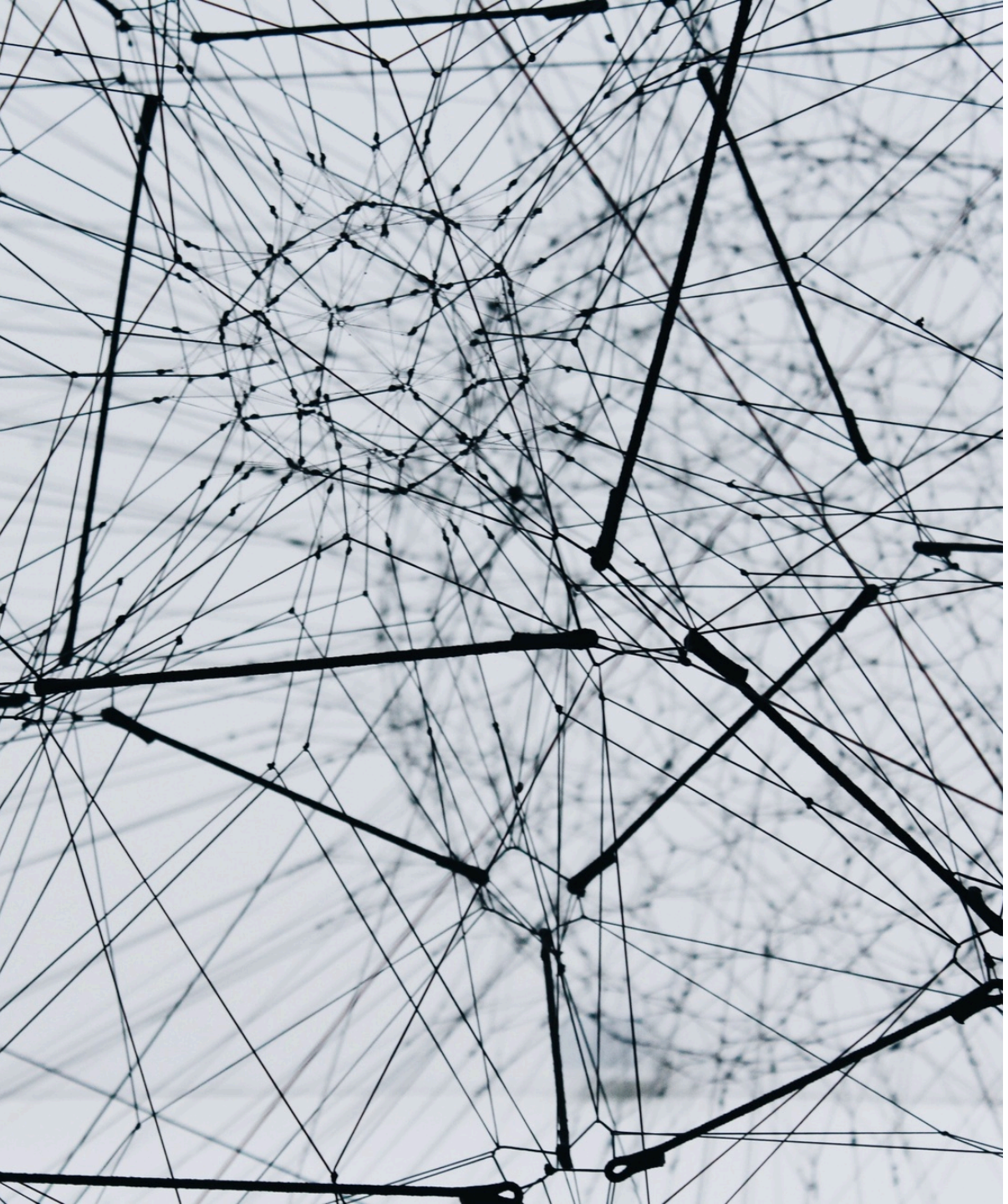
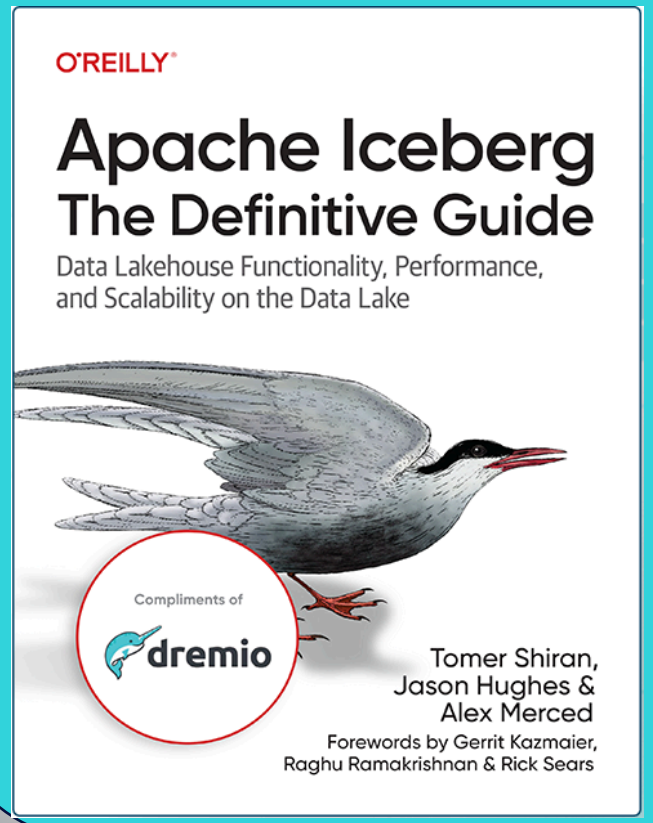


Graph Analytics: Unveiling Hidden Relationships in Data

Explore the power of graph databases and analytics in revealing interconnected data insights

LET'S CONNECT!



Intro - Andrew Madson

Developer Advocate - Tech Evangelist

Dremio

LET'S CONNECT!

Professiona

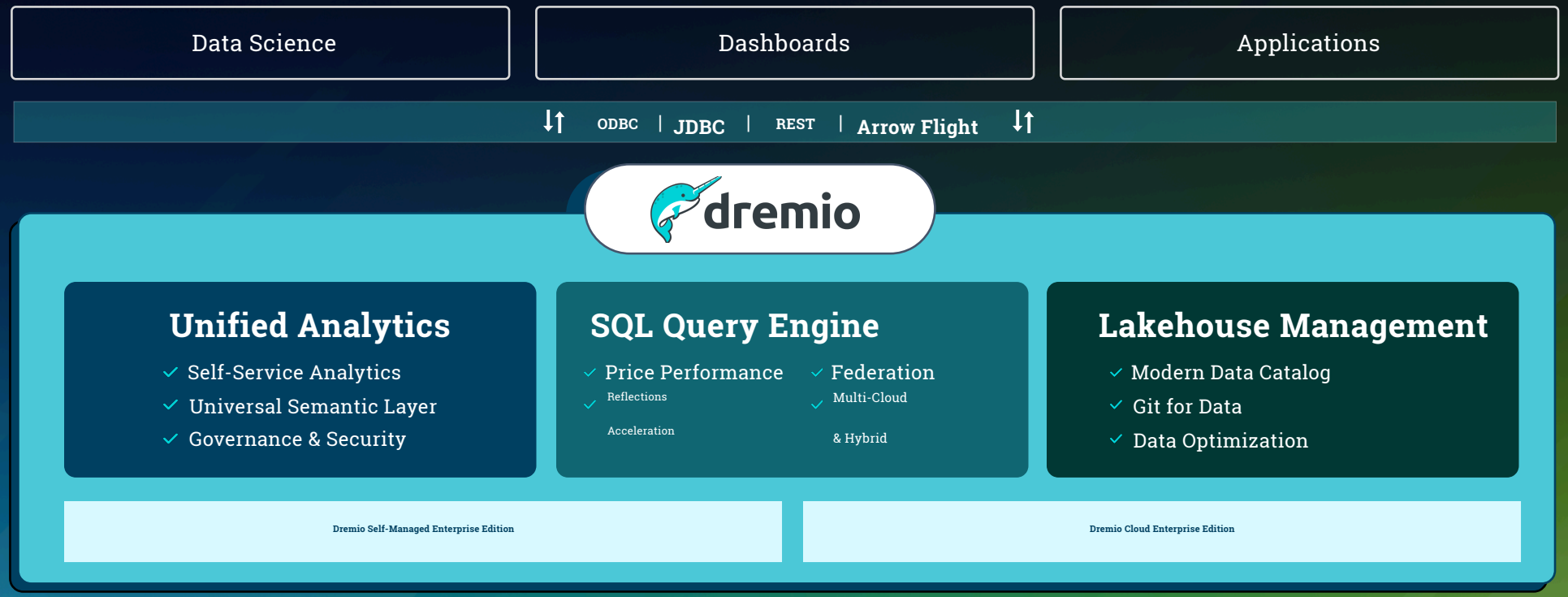
Professor

Social

@andrew-madson

@insightsxdesign

The Unified Lakehouse Platform for Self-Service Analytics



The Unified Lakehouse Platform for Self-Service Analytics & AI

dremio

Shift-Left Analytics for faster time to insight at a fraction of the cost

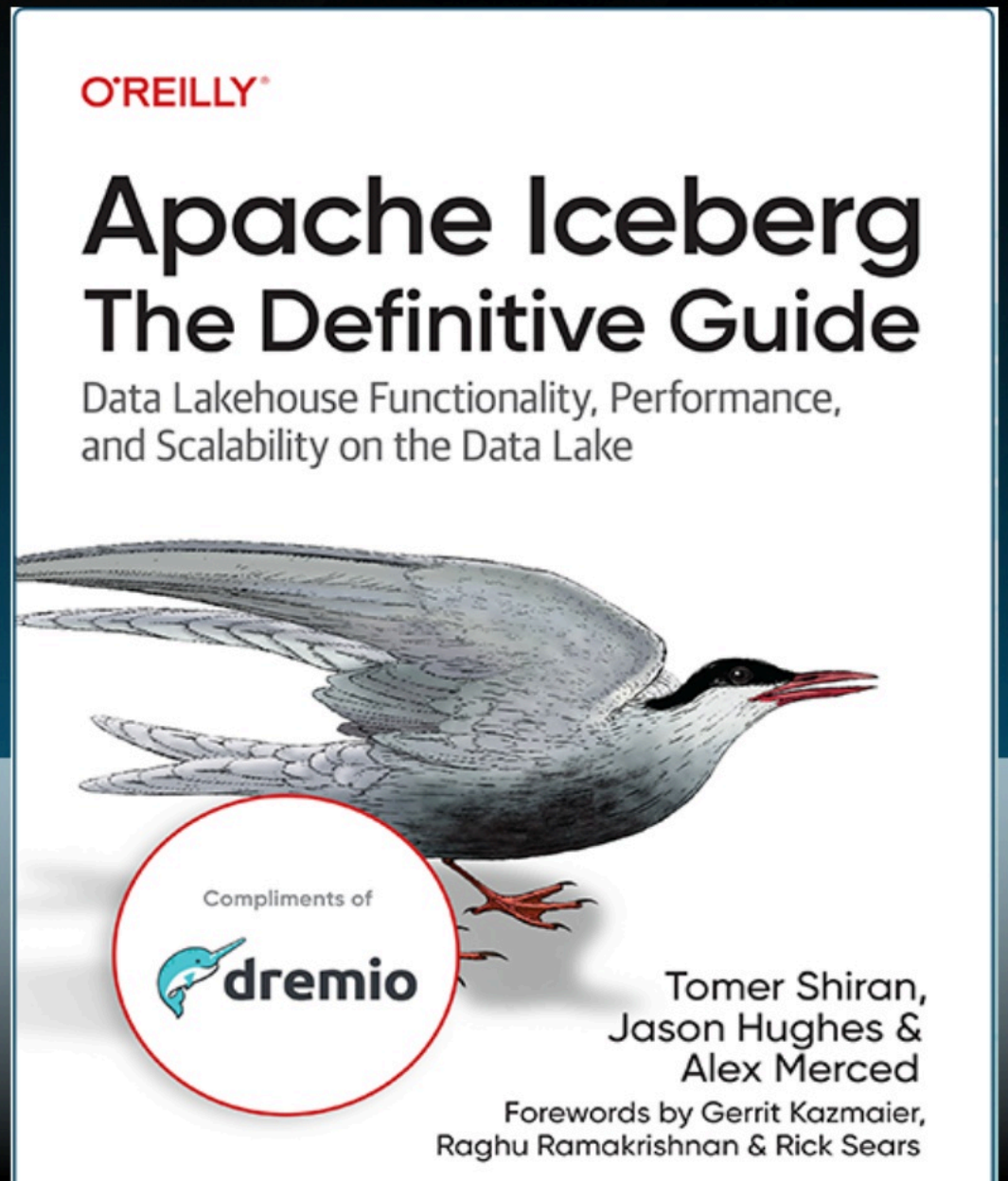
Bring users closer to the data with Self-Service Analytics

Optimized SQL Query Engine price performance with acceleration for sub-second BI

Centralized Data Governance enables faster access to data

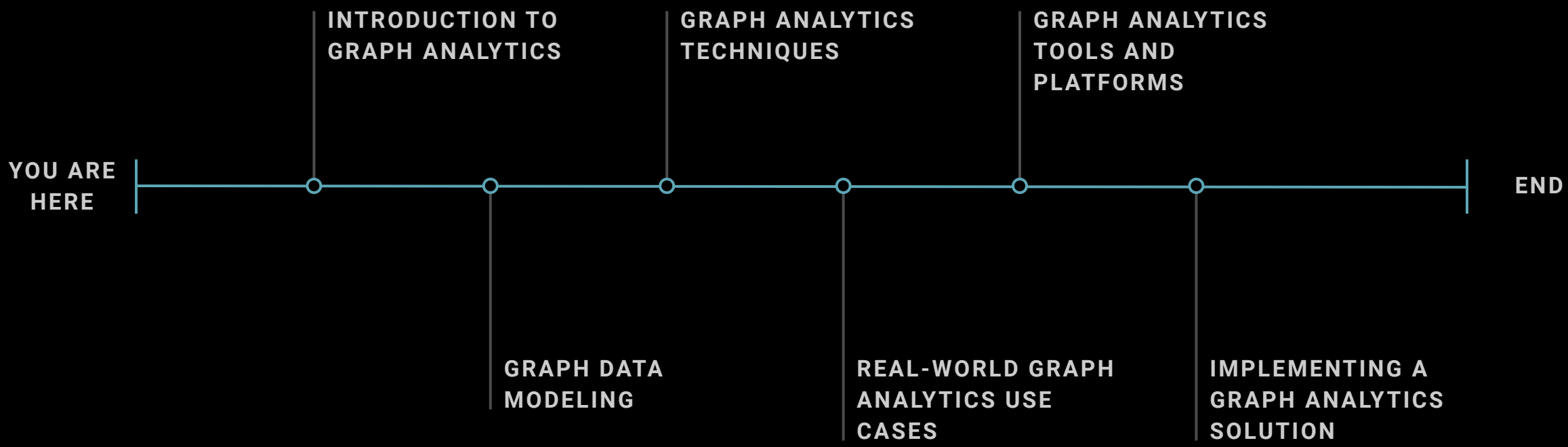
Next-Gen Dataops with Git-inspired data version control and data optimization

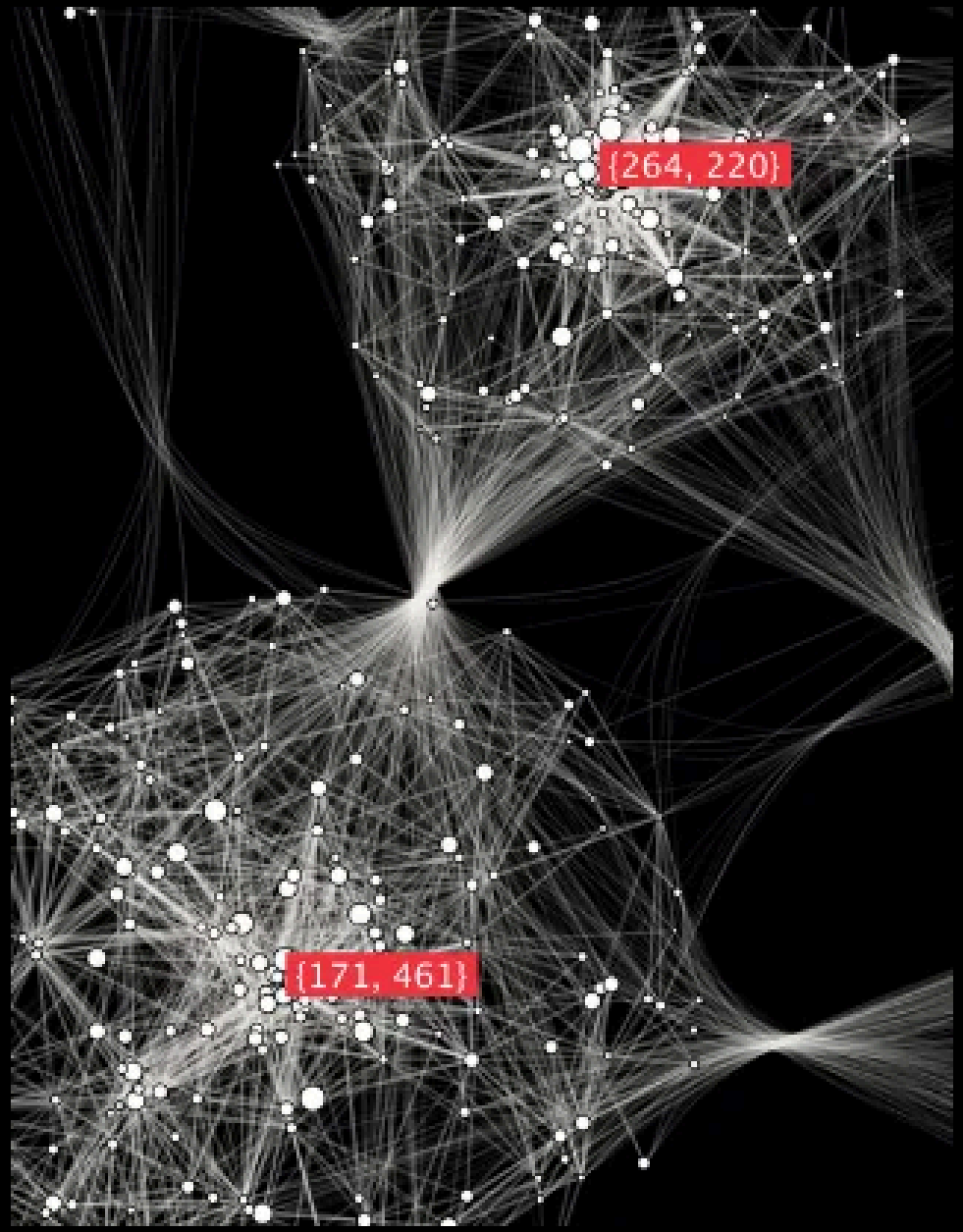
FREE!


O'REILLY
Apache Iceberg
The Definitive Guide
Data Lakehouse Functionality, Performance, and Scalability on the Data Lake
Compliments of
dremio
Tomer Shiran, Jason Hughes & Alex Merced
Forewords by Gerrit Kazmaier, Raghu Ramakrishnan & Rick Sears

bitly

Agenda

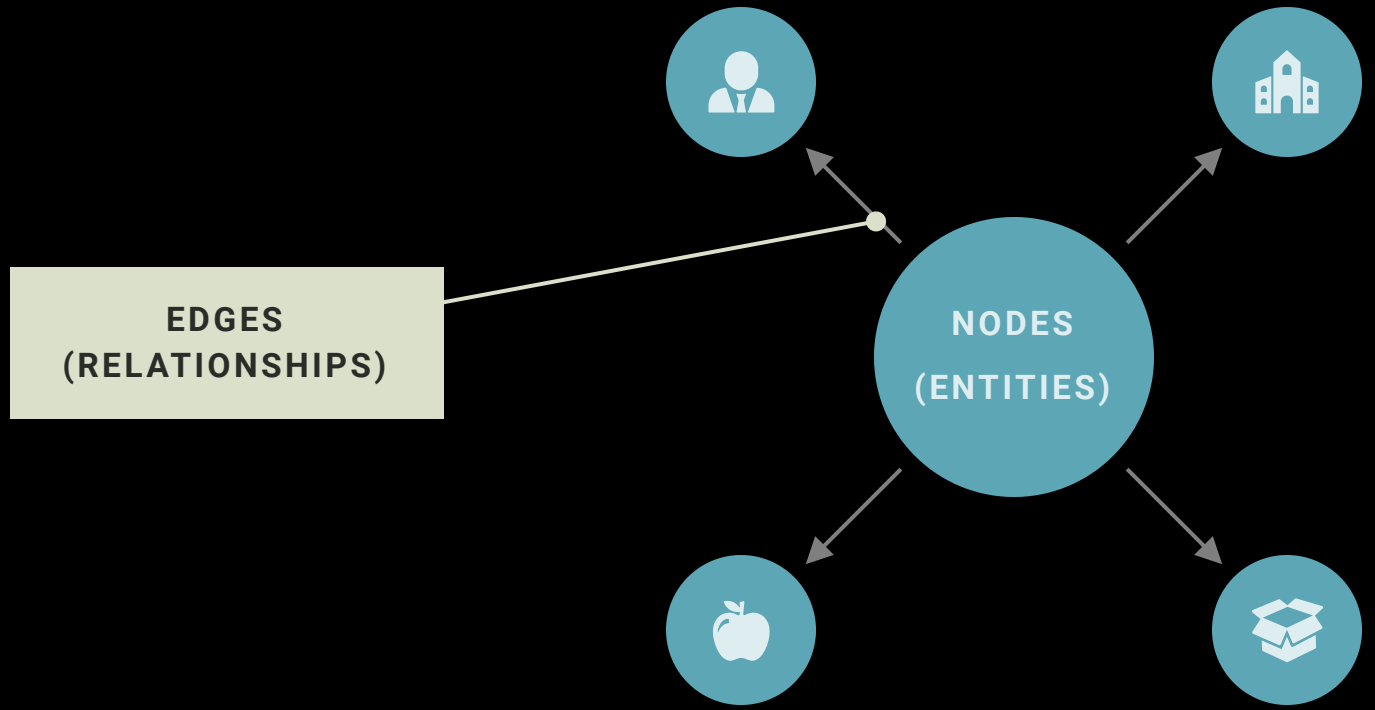

YOU ARE HERE
INTRODUCTION TO GRAPH ANALYTICS
GRAPH DATA MODELING
GRAPH ANALYTICS TECHNIQUES
REAL-WORLD GRAPH ANALYTICS USE CASES
GRAPH ANALYTICS TOOLS AND PLATFORMS
IMPLEMENTING A GRAPH ANALYTICS SOLUTION
END



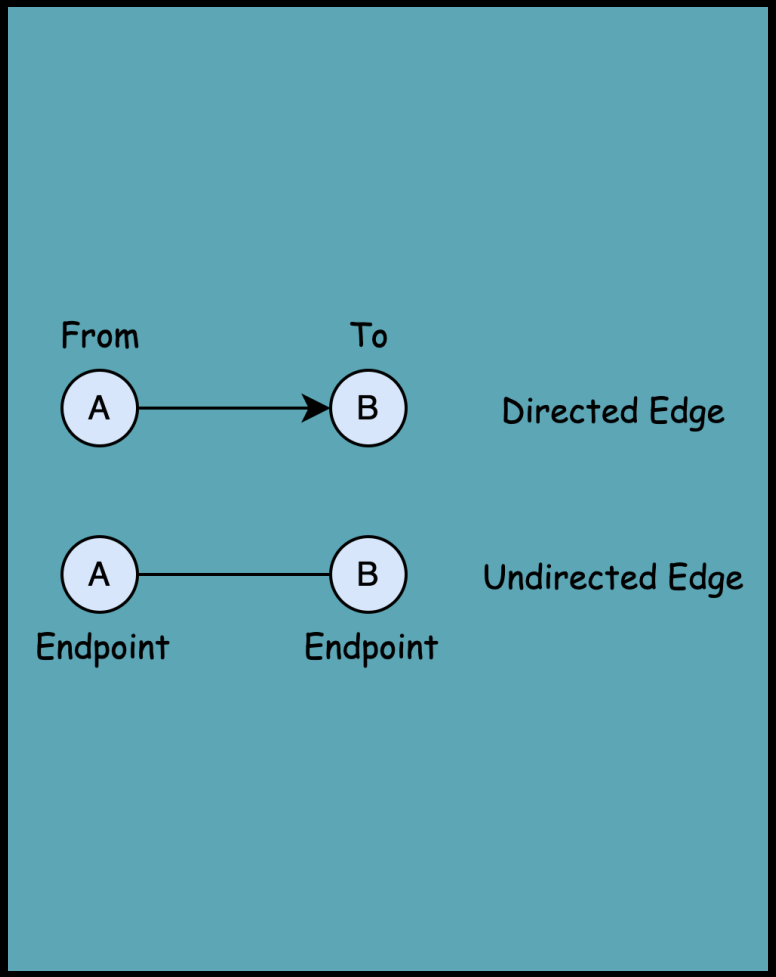
What is Graph Analytics?

Graph analytics refers to extracting insights and knowledge from graph-structured data, representing the relationships and connections between entities. This approach allows for exploring and analyzing complex, interconnected datasets not easily captured by traditional data models.

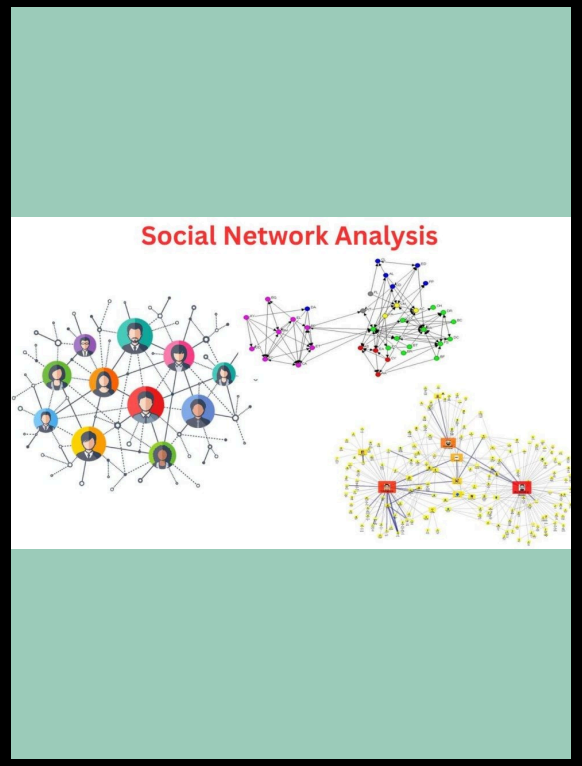
Key Characteristics



Common Graph Types

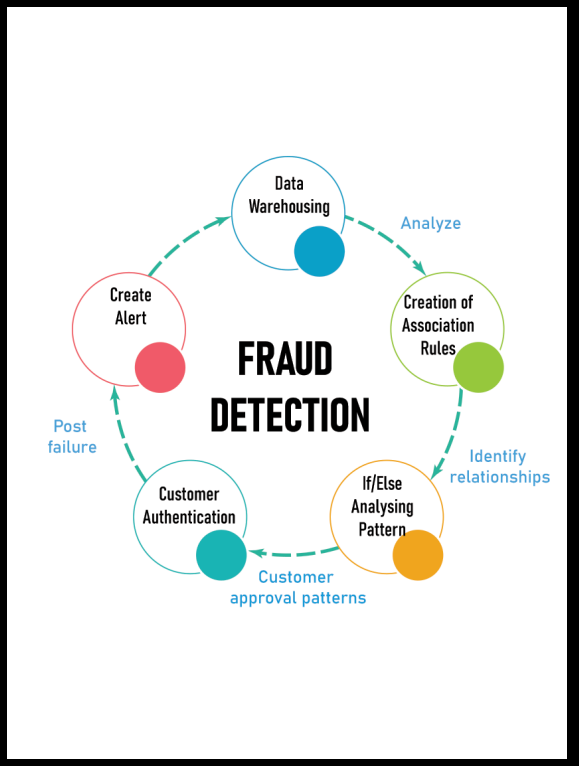


Real-World Applications



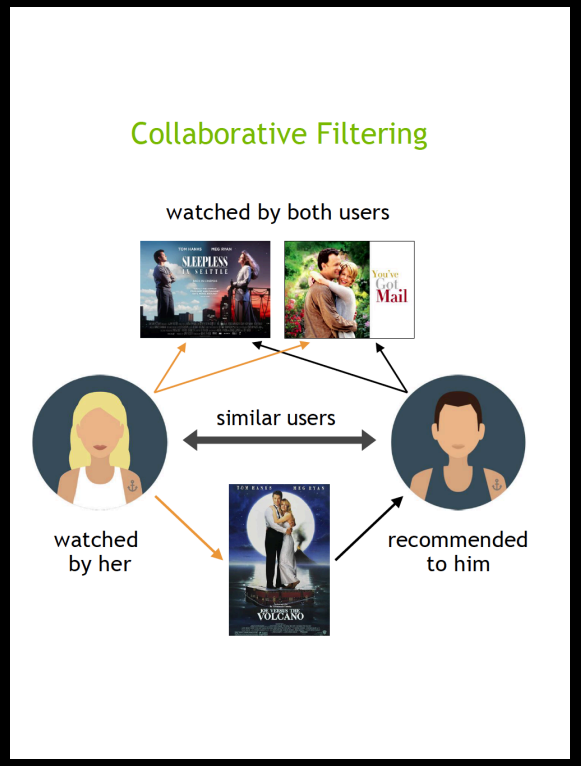
SOCIAL NETWORK ANALYSIS

Modeling relationships between users to power social recommendations and community detection



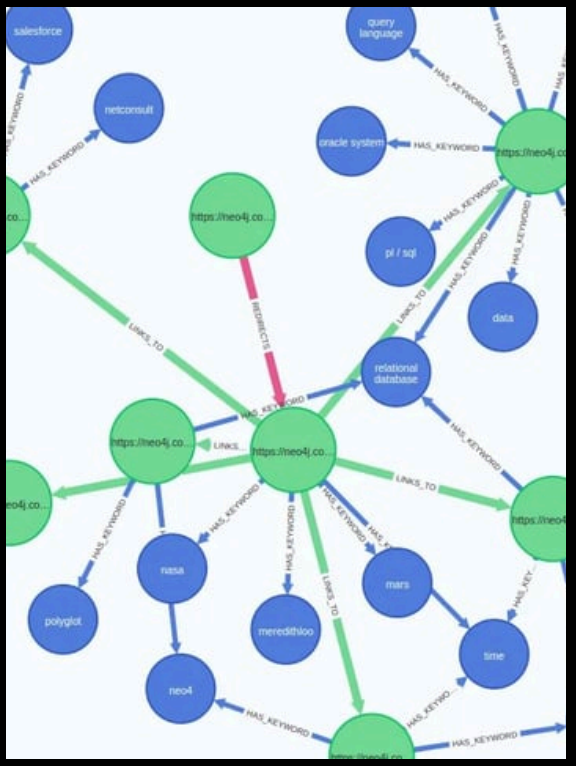
FRAUD DETECTION

Leveraging graph patterns to identify fraudulent activities and anomalies in financial transactions



RECOMMENDATION SYSTEMS

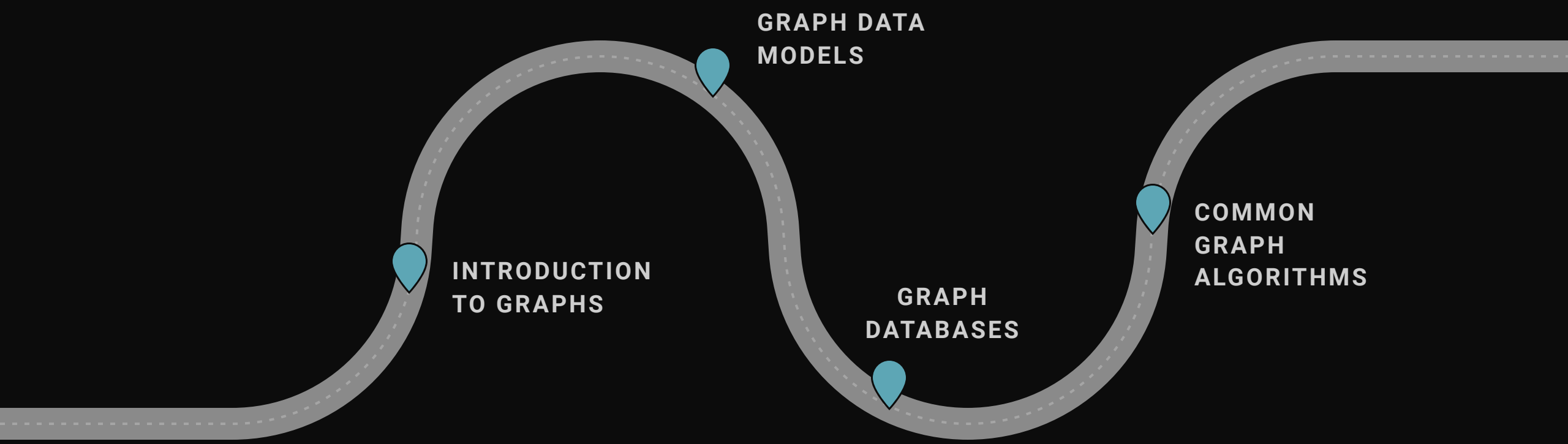
Generating personalized product, content, and service recommendations based on user behaviors and interests



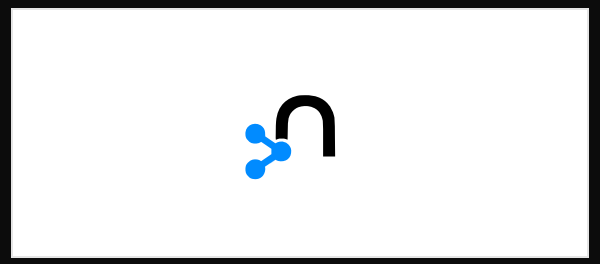
KNOWLEDGE GRAPHS

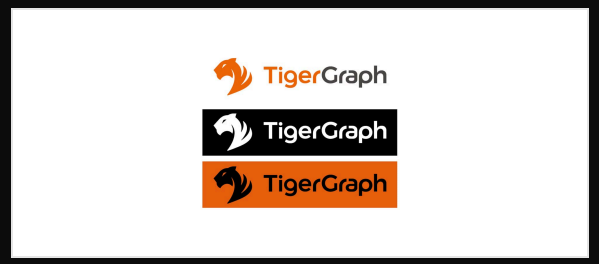
Integrating and querying diverse data sources to build comprehensive, semantic models of information

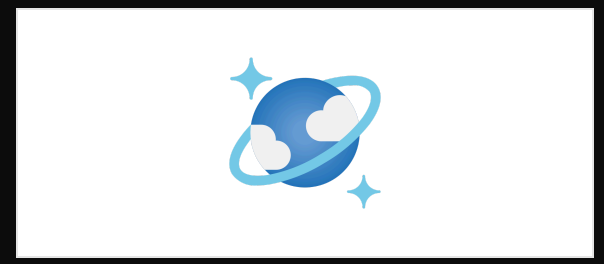
Graph Theory Fundamentals

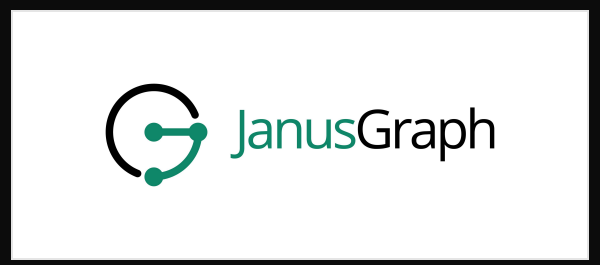


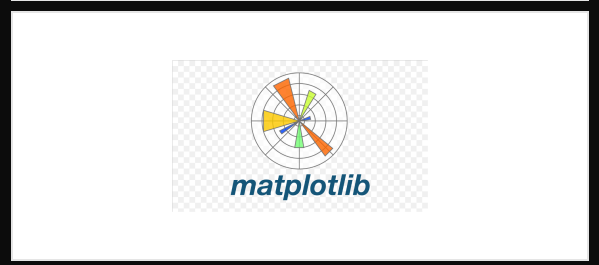
Tools & Implementation

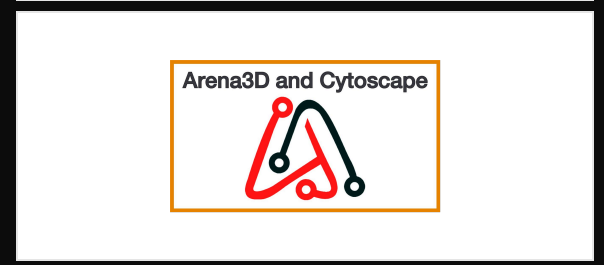




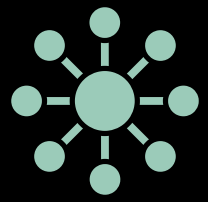








Implementation Examples



BASIC GRAPH CREATION AND VISUALIZATION

COMMUNITY DETECTION

CENTRALITY ANALYSIS

Best Practices & Guidelines

OPTIMIZE FOR SPECIFIC ANALYTICAL GOALS

LEVERAGE APPROPRIATE VISUALIZATION TECHNIQUES

PRIORITIZE PERFORMANCE AND SCALABILITY

AVOID COMMON MODELING PITFALLS

THANK YOU!

Questions?