🕸️ Graph

Nodes (vertices) connected by Edges

Graph Types
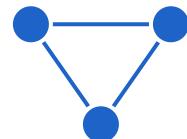
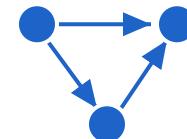| Directed	Undirected
Weighted	Attributed

Graph Properties

🔢 **Degree:** # of connections
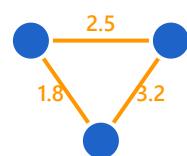
📊 **Density:** edge ratio
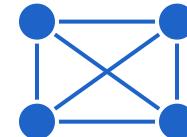
🔗 **Clustering coeff:** local structure

⚠️ **Challenge**

Undirected

Directed

Weighted

2.5

1.8   3.2

Complete

Traditional ML assumes Euclidean space → Need

📋 Representations

Adjacency Matrix	Edge List

🎯 Applications

Social Networks   Molecules   Knowledge Graphs