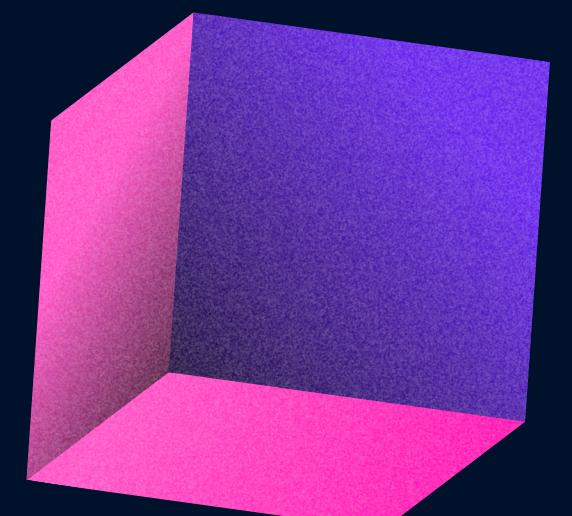
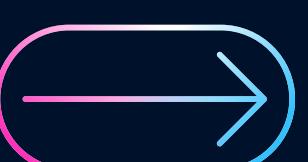




GRAPH BASED RECOMONDATION SYSTEM



With these few easy steps:



1

Data Comprehension

PMBOK: Knowledge and practices for project management
Practice Standard: Practical guidance in real world scenarios
Applying Ontology Learning
Graph-Based Recommendation System

2

Data Preprocesssing

Data Extraction: Extracting data from PMI corpus
Data Cleaning: Reducing the unnecessary data and improving efficiency
Data Preparation & Feature Engineering: Defining the key element of the data and extracting necessary features to help build Graph Based Models

3

Modeling

Create Embeddings For Entities And Relationships
Building The Entities Relationships Graph
Manipulating Node and Edge Features
Link Prediction Using GNN
Knowledge Graph Completion

4

Model Evaluation And Validation

Graph Embedding Quality
Use Case Testing
Predicting missing or future links between nodes in a graph
Graph Reconstruction
Evaluation Metric: AUC-PR , Reconstruction Error

5

Monitoring

Identifying potential issues during deployment
maintaining the model's reliability