DSCI 558: Building Knowledge Graphs

Quiz 15 (5 minutes)

**In this quiz, you will be given 2pts in the beginning.**

**Question 1 (8 points):**

Matching the following applications to the KG embedding method that is the most appropriate:

1. First-order methods (TransE): Predicting sport teams of universities
2. Relational Path Based techniques (PtransE): Given a person, find his/her uncles in the knowledge graph (uncles are brothers of fathers).
3. Neighborhood Aggregation techniques (GCN): Modeling personalized interests of users based on their order history in an E-commerce knowledge graph.
4. Complex space relation embeddings (ComplEx): Modeling the Facebook social network with friends (symmetry) and followers (asymmetry) relationships