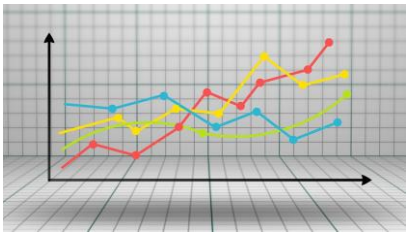
학부생 연구기회 프로그램 (UROP) 공고

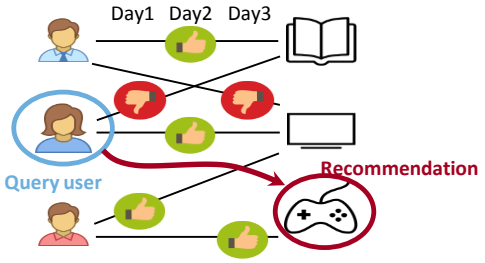
◆ 담당교수: 강유 (데이터 마이닝 연구실)
◆ 모집대상: 데이터 마이닝 및 기계 학습에 흥미 있는 3-4학년 학부생
◆ 모집기간: 2019년 12월 말까지

Multivariate Time Series Forecasting



- Forecast a trend of multiple vars.
- Implement a state-of-the-art method
  - Matrix factorization by neural nets.
  - Learned by back-prop. (PyTorch)
- Applicable to many real-world tasks

A Comparative Study of Matrix Factorization and Tensor Factorization in Recommender Systems

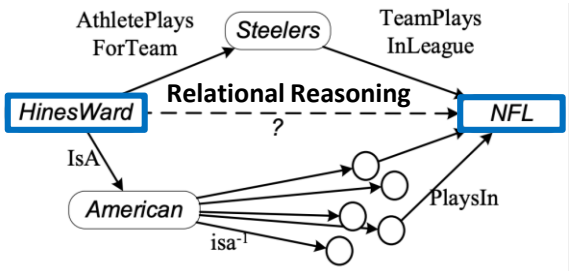


- Comparing the performances of matrix and tensor factorization
- Implement factorization methods
  - Matrix Factorization (python)
  - Tensor Factorization (python)
- Applicable to recommender systems

Multi-Behavior Recommendation

- Recommendation for multi-behaviors
  - Various types of behaviors
  - Sequential behaviors
- Deep learning based approach
  - Recurrent neural networks
  - Attention mechanism

Relational Reasoning in Knowledge Base



- Infer the relation between nodes in KB
- Understand recent deep graph neural network architectures
- Improve inference performance by effectively modeling knowledge base embeddings

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