8-4: More Tools for Recommendation

Introduction

- We've used LensKit in this course

- It isn't the only toolkit useful for building and testing recommender systems

- This video: some additional tools

Apache Mahout

- Built in Java

- Uses Hadoop for scalability

- General machine learning capabilities

- Several recommender algorithms

MyMediaLight

- C#/.NET (works on Mono)

- Prediction and recommendation

- Many algorithms available

- Includes built-in cross-validation

GraphLab

- C++ and Java (2 versions)
- High-performance matrix factorization
- Very large data sets on single machines

REST services

- EasyRec
- PredictionIO
- Mahout has a REST API
- LensKit has one in progress

Other Libraries

- crab (Python)
- mrec (Python)
- recommenderlab (R)
- SUGGEST
- RecDB (PostgreSQL)
- many more…

General ML Tools

- R, Matlab, and their libraries
- WEKA (machine learning toolkit)

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