Labs **Machine Learning Course**Fall 2022

EPFL

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Problem Set 13, Dec 15, 2022 (Matrix Factorizations and Recommender Systems)

Goals. The goal of this exercise is to

- Build a recommender system.
- Learn to evaluate its performance.
- Implement and understand matrix factorization using SGD.
- Implement and understand the alternating least-squares (ALS) algorithm.

Setup, data and sample code. Obtain the folder labs/ex13 of the course github repository

github.com/epfml/ML_course/tree/master/labs/ex13

You can also the notebook in Google Colab:

 $colab.research.google.com/github/epfml/ML_course/tree/master/labs/ex13/template/ex13.ipynb$

1 Notebook

The notebook guides you through data preparation, the design of baselines, and the implementation and training of a Matrix Factorization algorithm for recommendation.