Three Steps to Have Fun on Recommender Systems

**STEP 1: Introduction to Recommender Systems (by University of Minnesota) 🡪 1.5 months**

1. Textbook: Recommender Systems Handbook;
2. Coding: LibRec (Basic logic, UserKNN, ItemKNN, MF)
3. Java: Core Java (JavaSE), Eclipse, Google Guava, Maven

**STEP 2: Basic Algorithms (**[**http://librec.net/tutorial.html**](http://librec.net/tutorial.html) **) 🡪 2-3 months**

Rating Prediction:

1. PMF/RegSVD, BiasedMF, SVD++, BPMF, NMF (Classic Recommender Systems)
2. RSTE, SocialMF, SoRec, SoReg, TrustMF, TrustSVD (Social Recommender Systems)

Item Ranking:

1. BPR, GBPR, SBPR, WBPR, AoBPR (Classic)
2. RankSGD, WRMF, FISM, SLIM, CLiMF

**STEP 3: Work on your own research direction**

1. Paper reading and summarizing
2. Working on your own idea/papers