1. Thesis:
   1. Find the right K
   2. Soft evaluation (maybe using cosine similarity)
   3. MRR vs. MPR vs. Map vs. NDCG
2. Understand if cosine similarity is better than inner product
3. Explicit rating: in 1-5 range, remove all 1-3 stars for example, and relate them as not existing in DB. Mark 1 all the 4-5 stars.

The goal here is to find that cutoff

1. Try to model the seasonality of a product by SIN(wx+phi) function (estimating its coefficients...) we may be able to simplify it by doing that per day or month.
2. Progress:
   1. We will foreach k from 1 to X
   2. Decide how we split the data… (k-fold, last two elements etc…)
   3. Algorithm,:
      1. Run BPR (or any other recommendation algorithm) on data
      2. Use interactions.csv data to decide which user-item touple is relevant
         1. Use interaction types 2,3 & 5 for relevance decision
         2. If 2 && 3 && 5 are true – touple is relevant, o/w not
      3. Use state of the art (MAP,NDCG etc.) to evaluate algorithm’s result
      4. Our Evaluation
         1. C(i) = Take attributes 2,3,5 weight and sum them
         2. Use Map’s algorithm (that ignores location) and calculate map as sum(C(i))