MDLE: Assignment 3A

– Due date: May 18th, 2025 –

What to submit

A **3–4 page written summary** (font size 12) on Locality-Sensitive Hashing (LSH) that addresses the following concepts:

- A brief explanation of what LSH is and how it works conceptually;
- How LSH can be used to speed up similarity computation between users/items;
- Specific techniques (e.g., cosine or Jaccard LSH) relevant for user-based or item-based filtering;
- An example from a paper, tutorial, or library of your choice showing LSH in a recommender context;
- Discuss the trade-offs in using LSH for recommender systems;
- One aspect that you found most interesting or potentially useful for large-scale systems;

Use citations where appropriate.

Recommended bibliography (not limited to):

- "Mining of Massive Datasets" by Leskovec, Rajaraman, Ullman (Chapter 3) (http://www.mmds.org/)