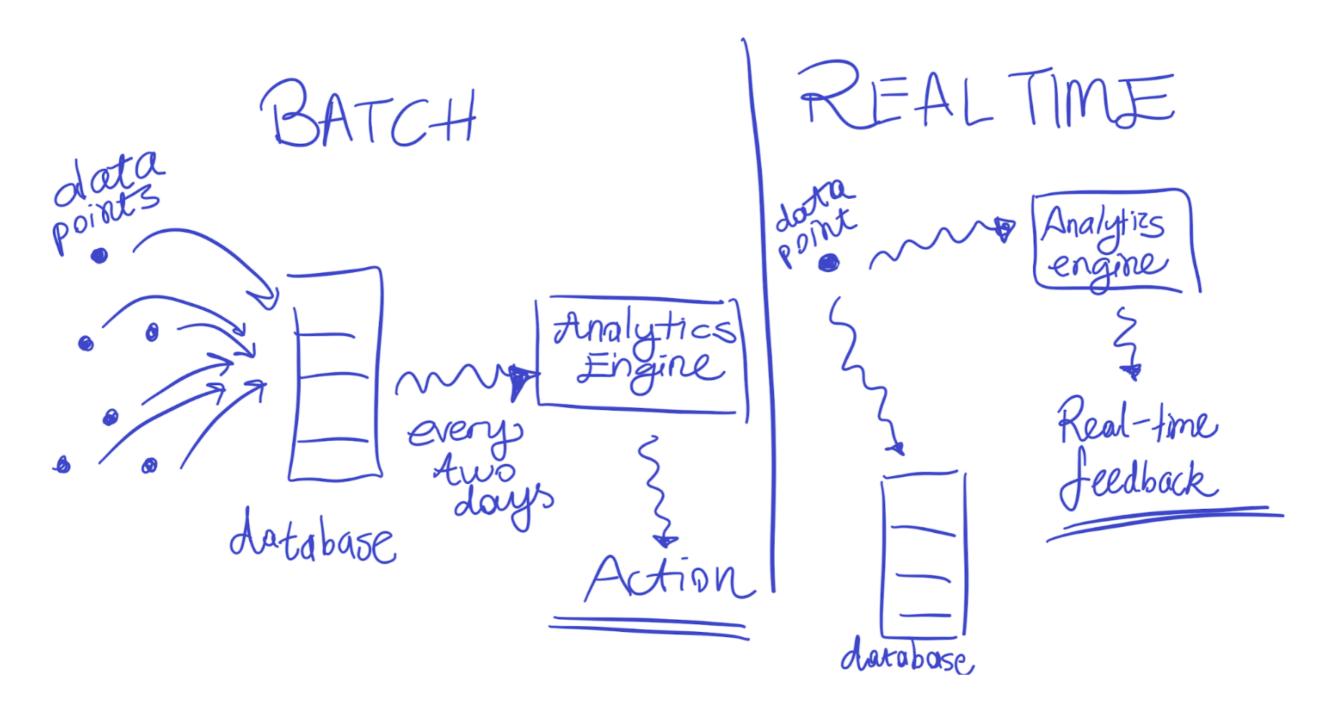
Recommender Systems in Industry: Focus on the System Design

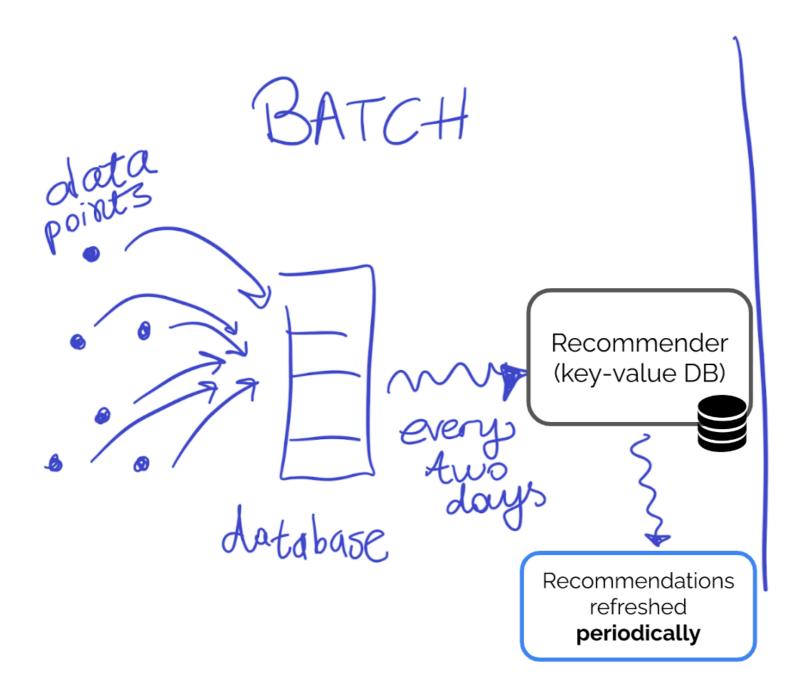
Marie Al-Ghossein

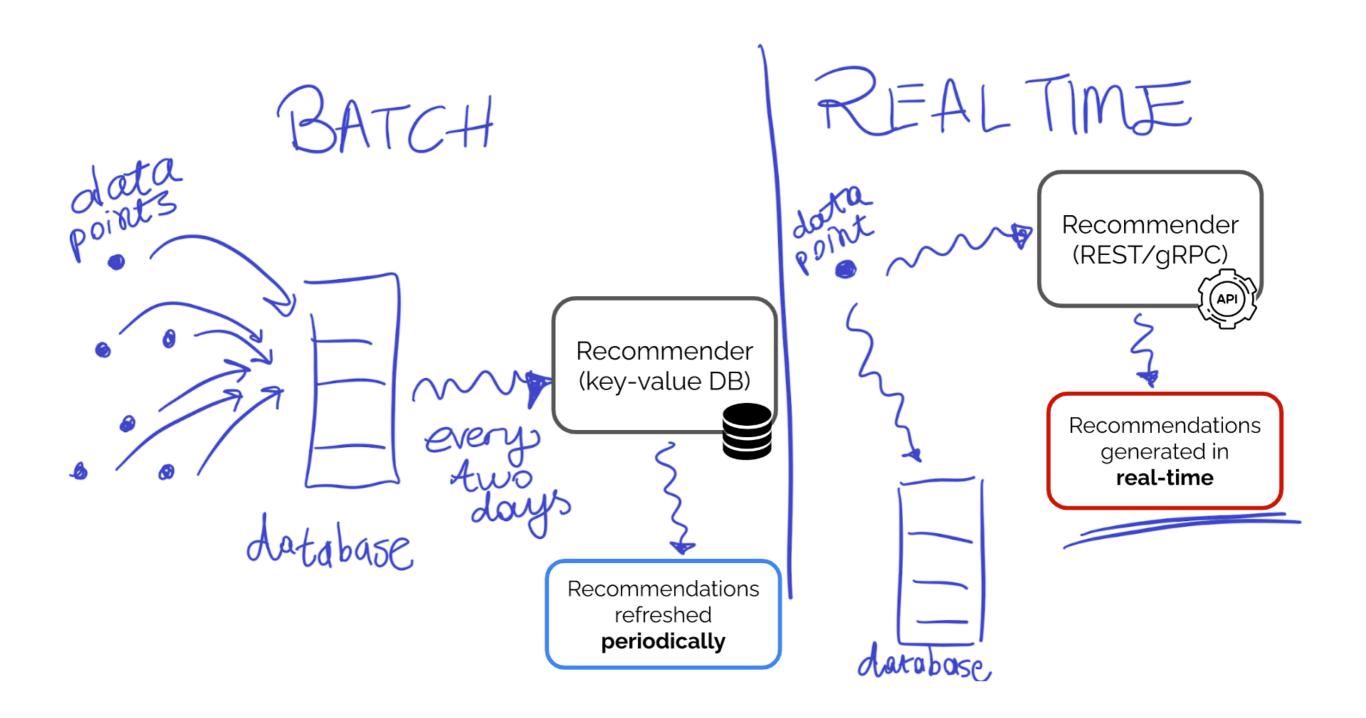


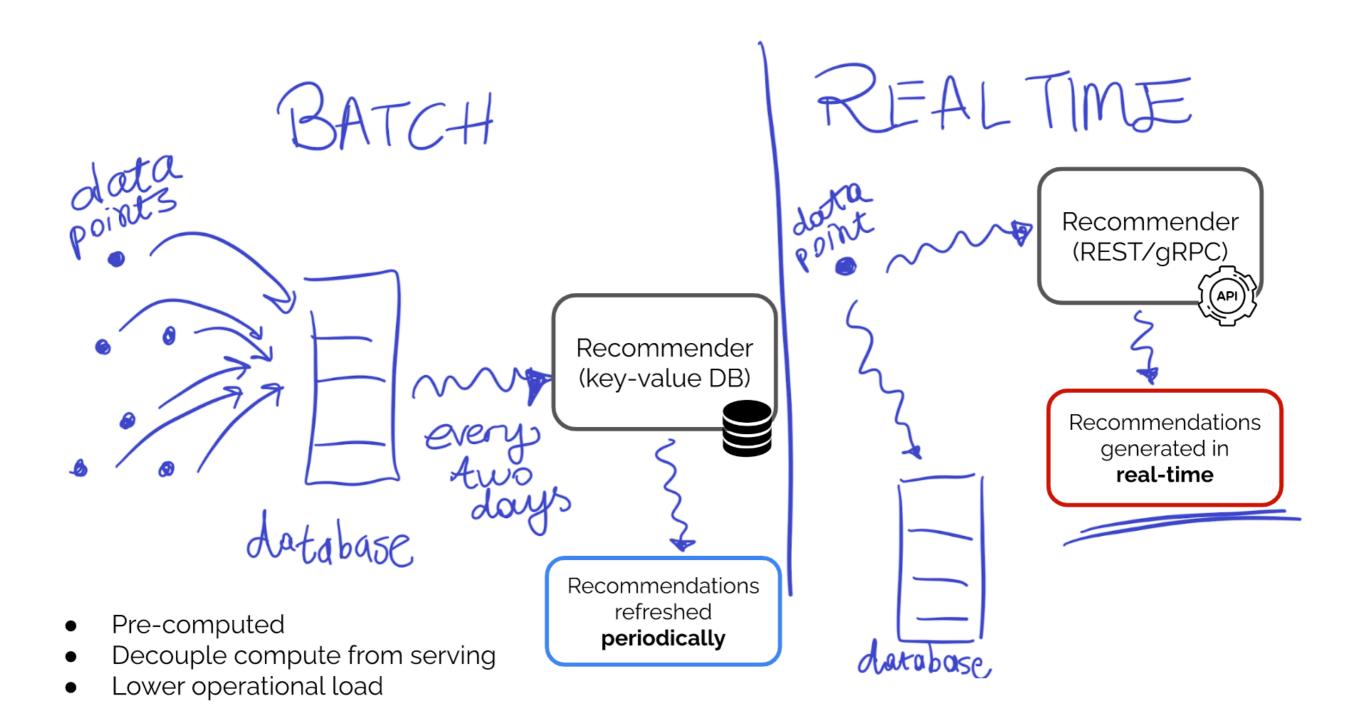
June 2, 2025

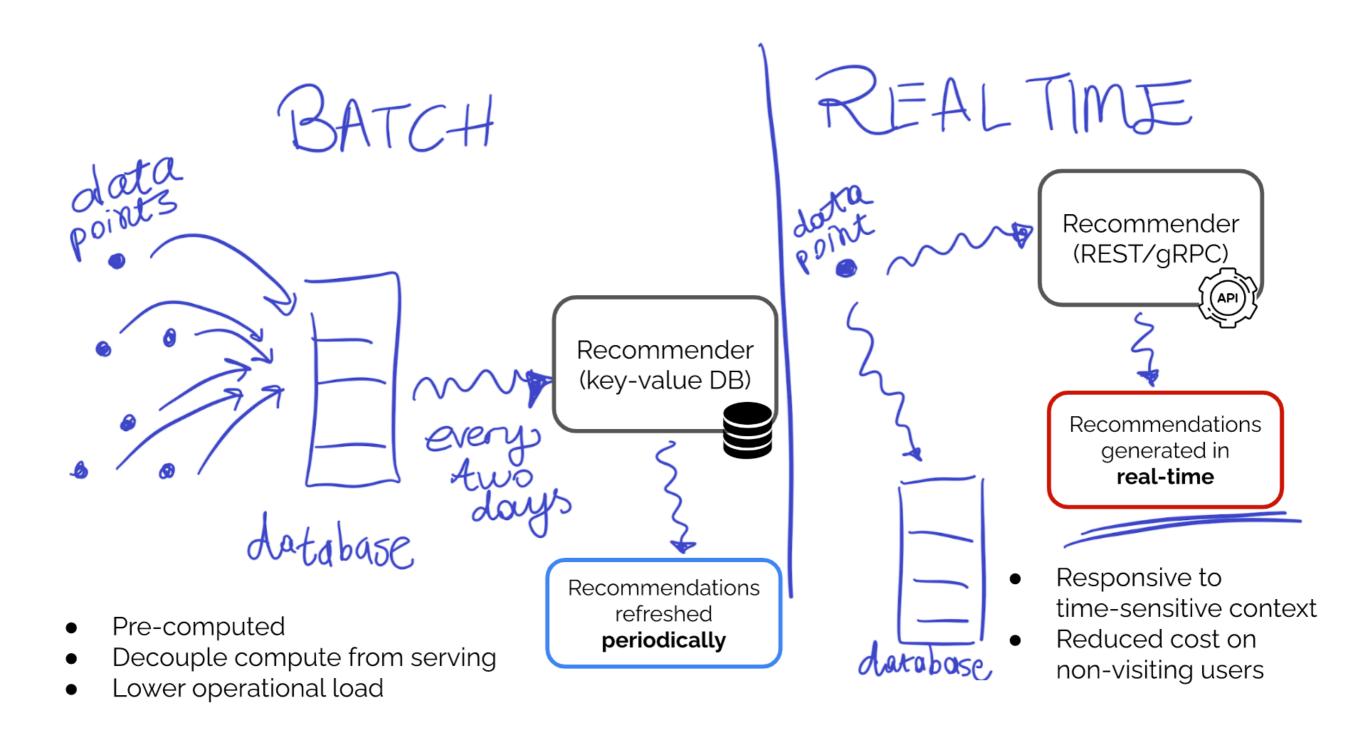


Source: https://softwareengineeringdaily.com/2018/11/09/converged-data-platform-unifying-streaming-data-using-mapr/

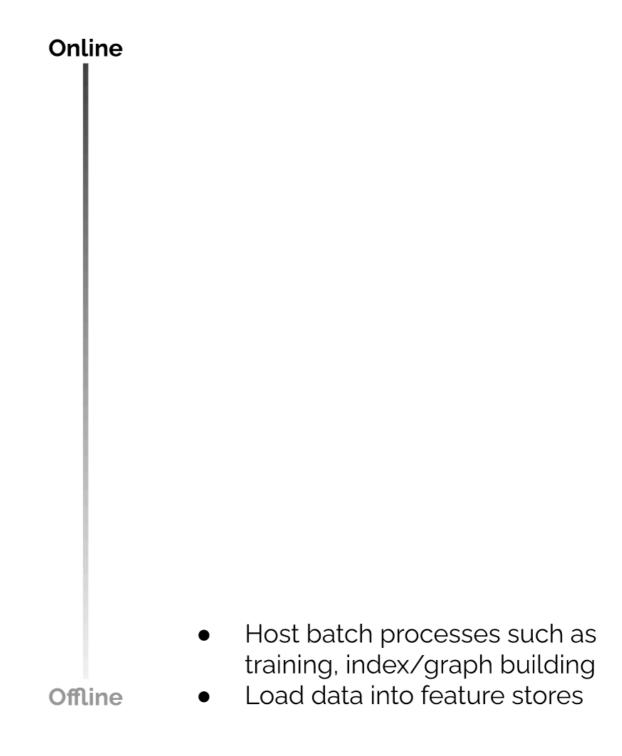


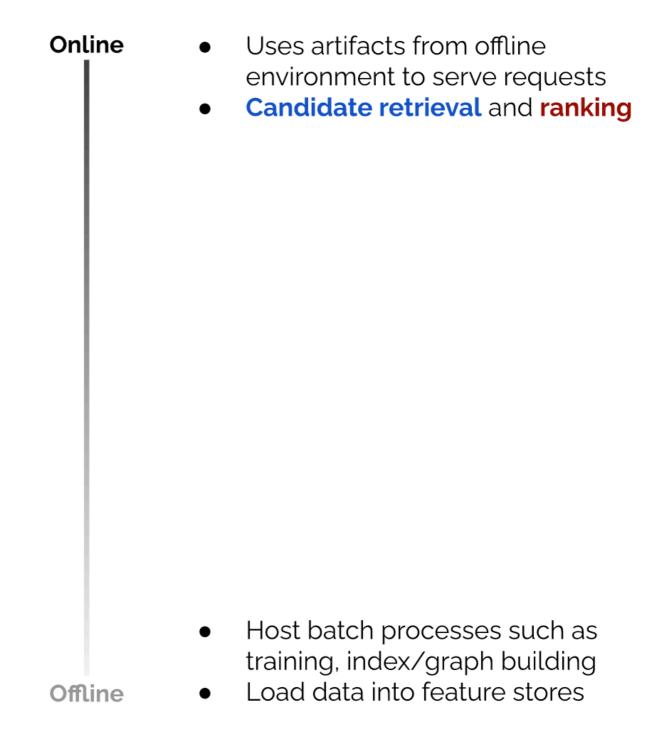














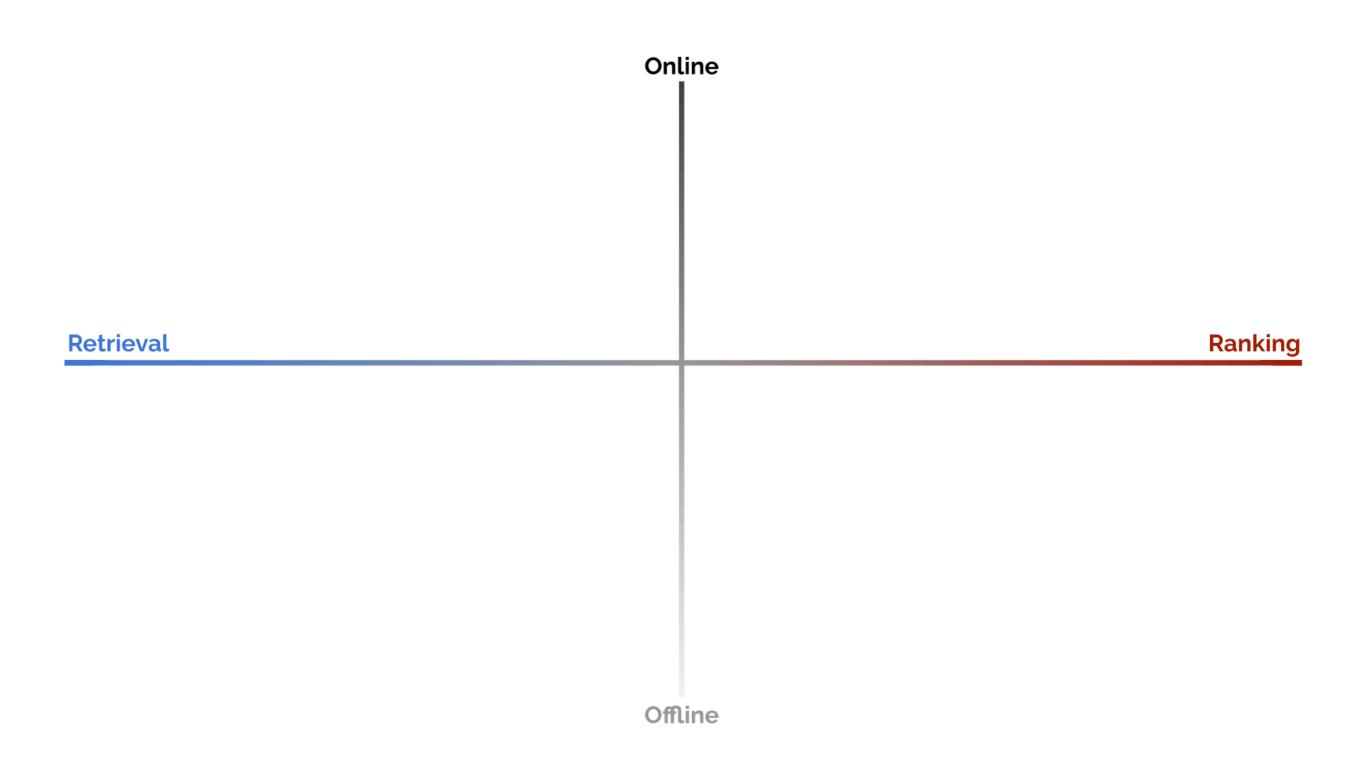
- Fast but coarse
- Searches millions of items to get hundreds of candidates
- Approx NN, Graphs, etc.

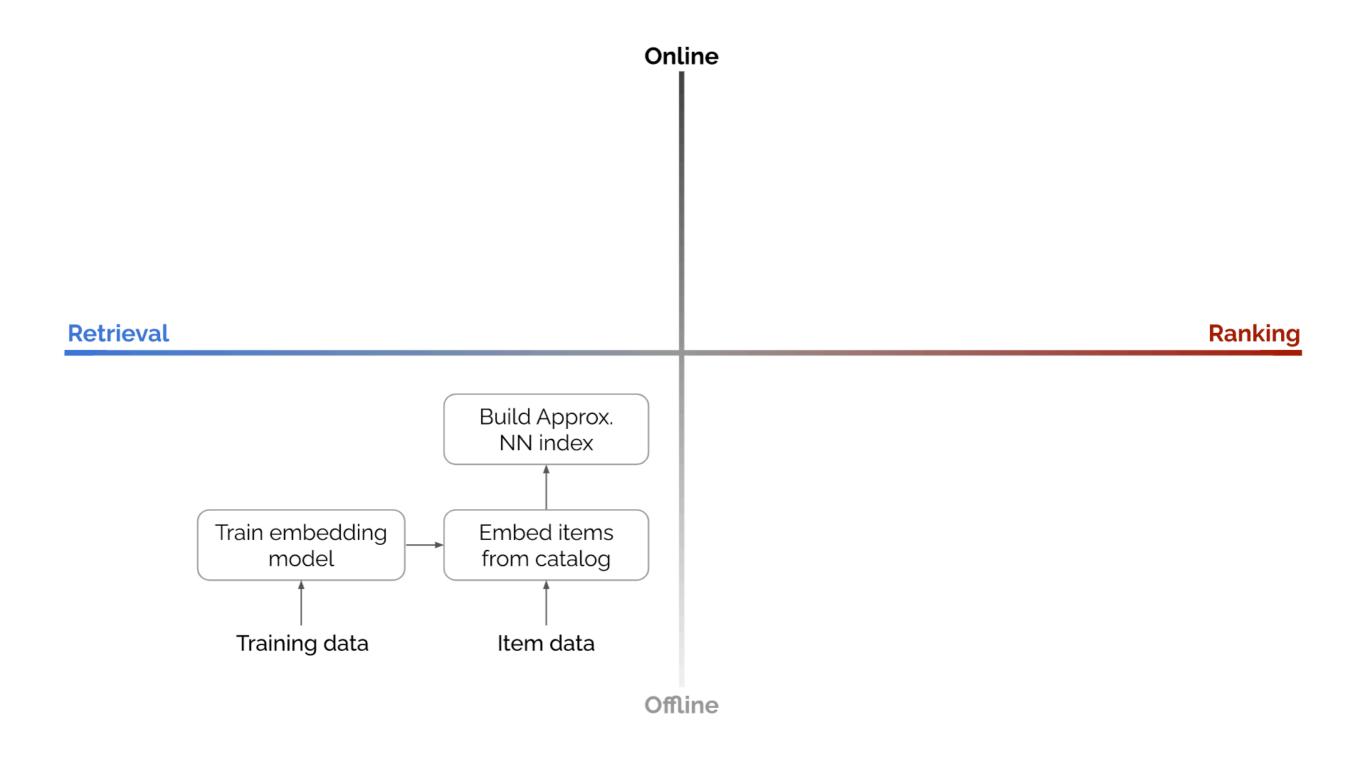
Retrieval

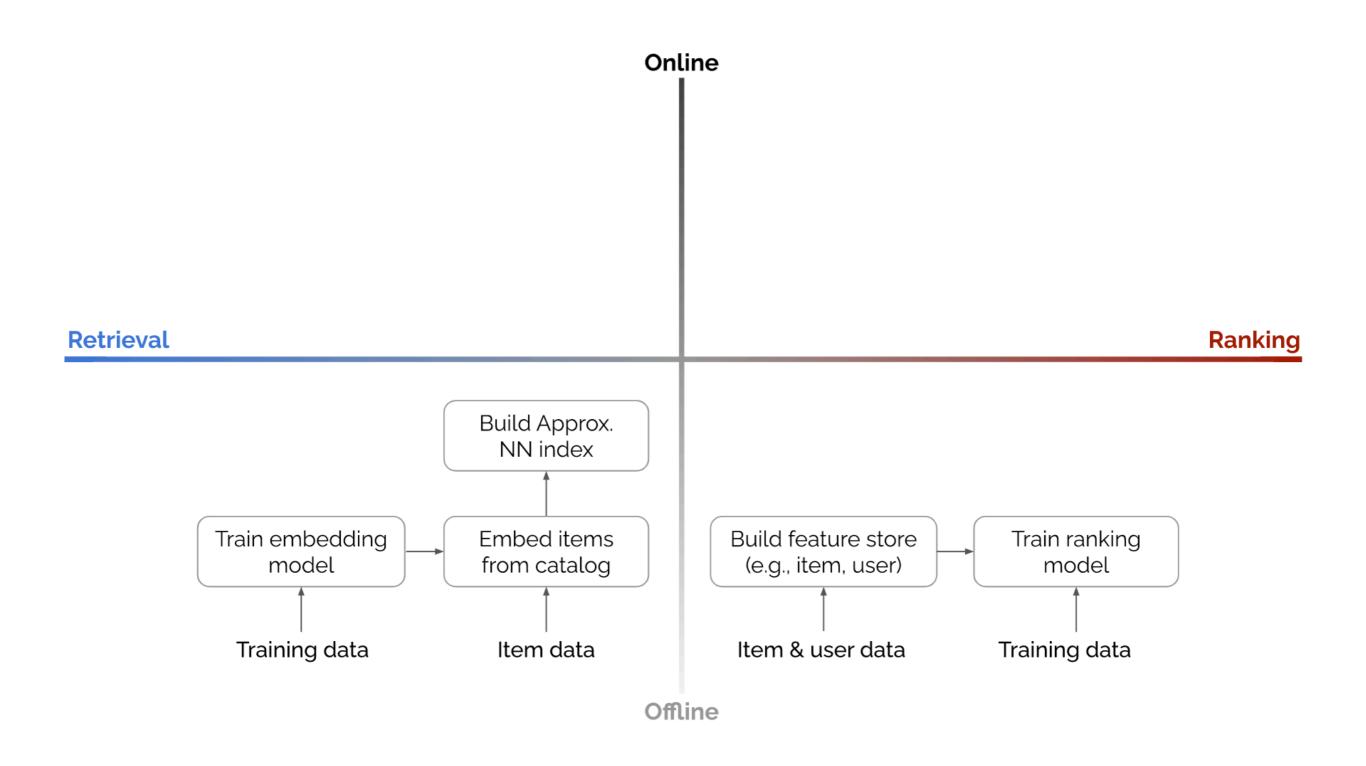
- Fast but coarse
- Searches millions of items to get hundreds of candidates
- Approx NN, Graphs, etc.

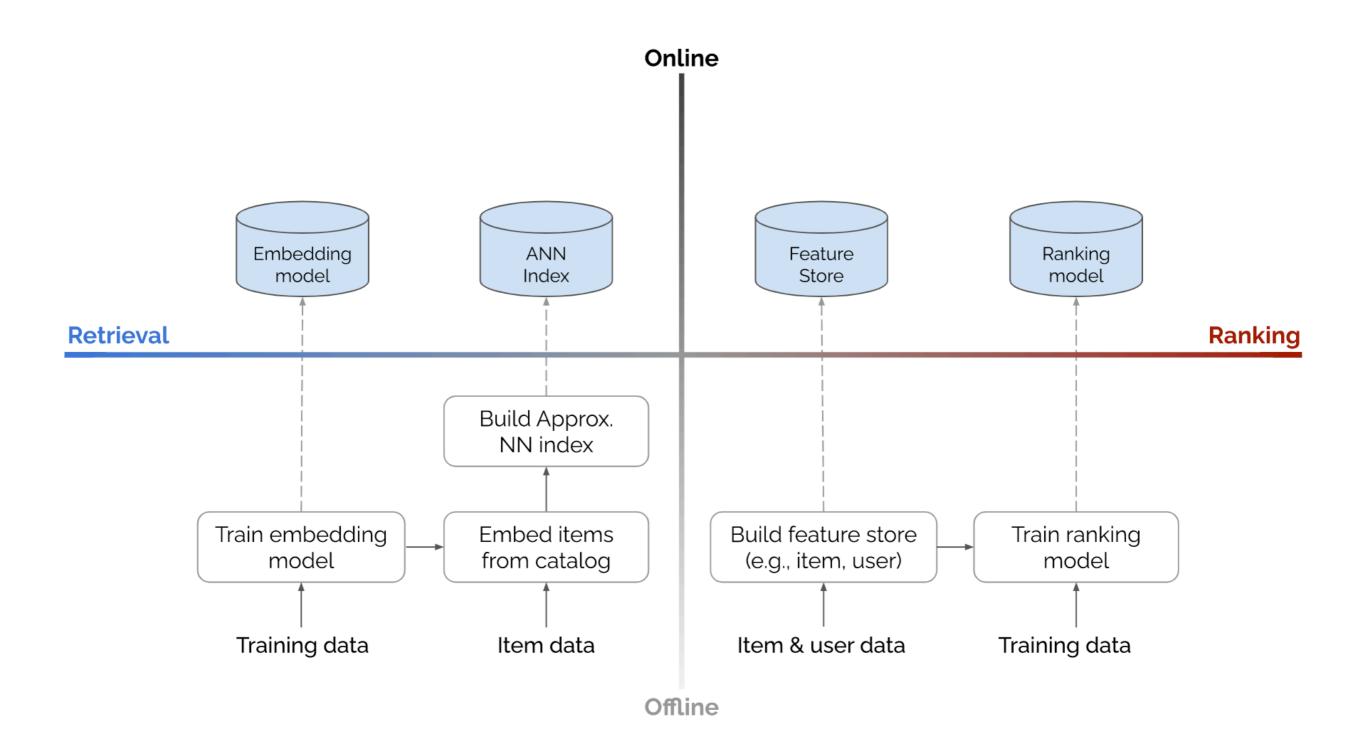
- Slower but more precise
- Ranks hundreds of candidates
- Adds more features
- Classification or learning-to-rank

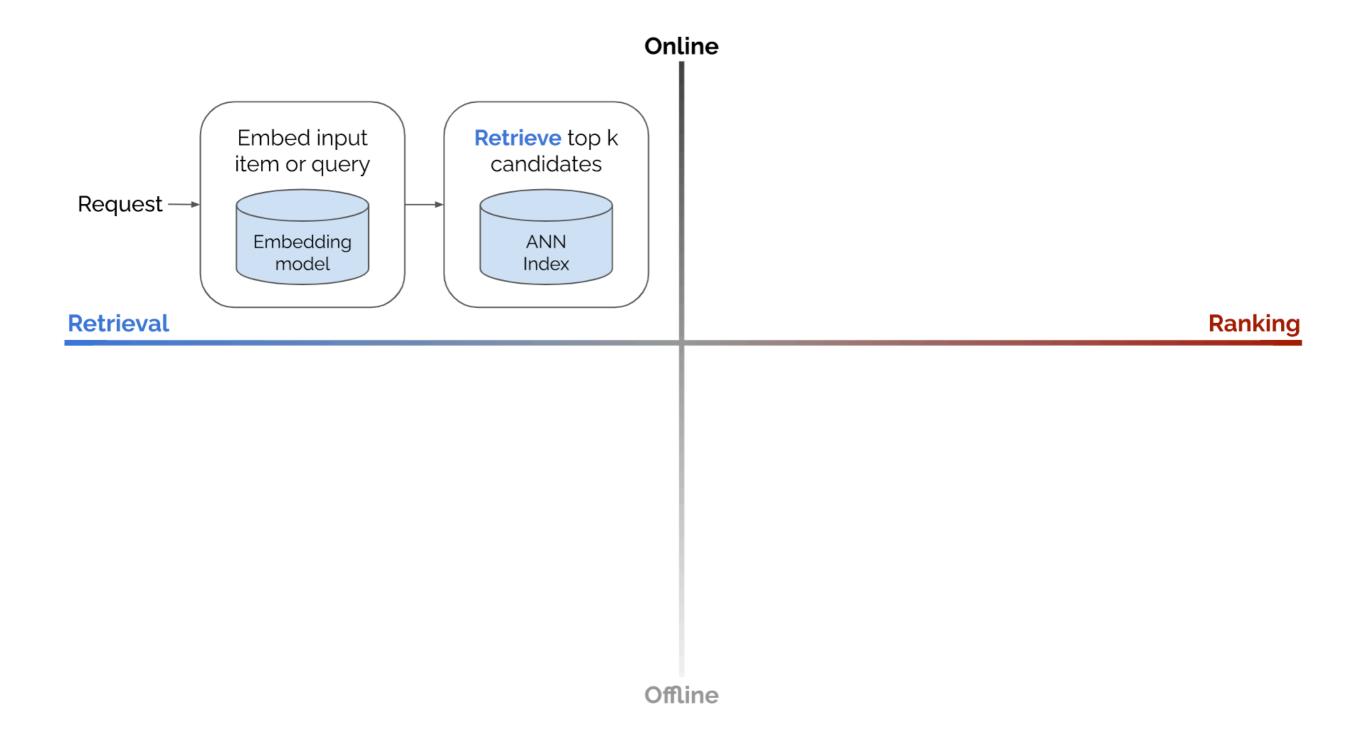
Retrieval

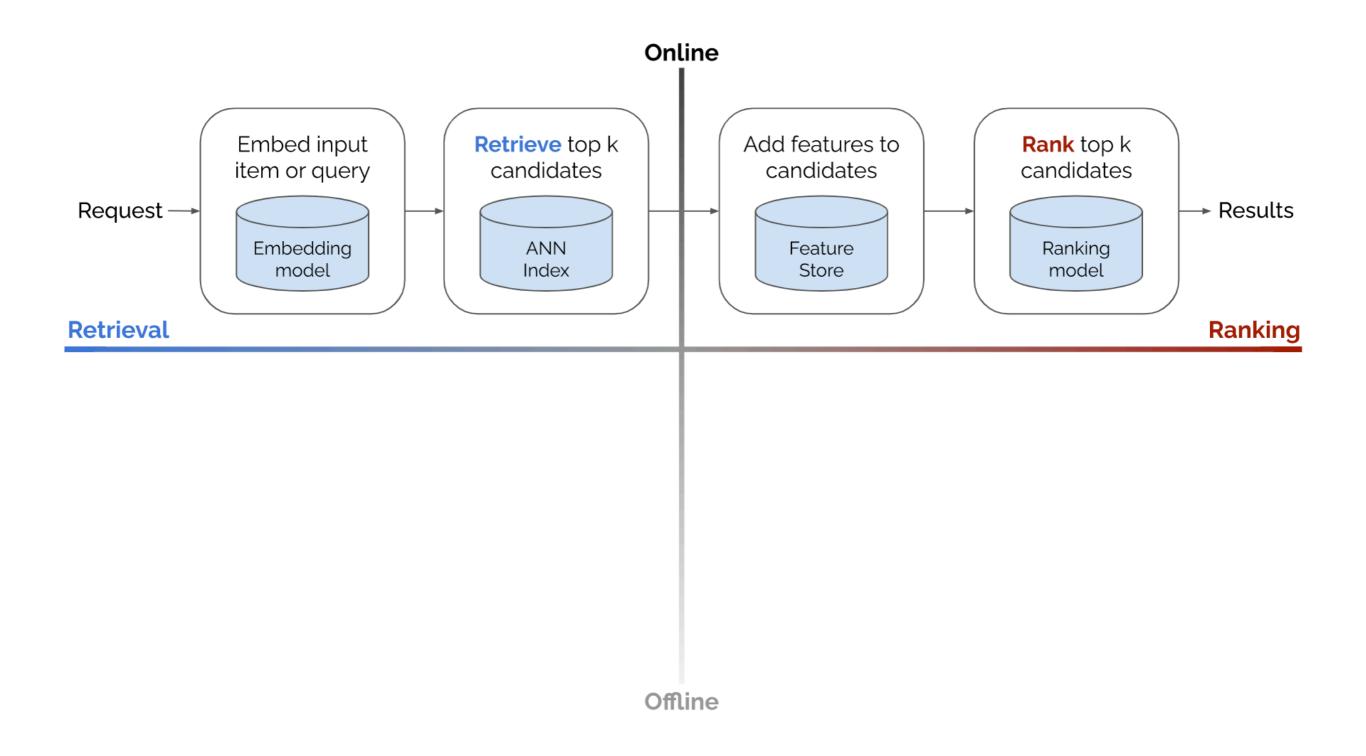


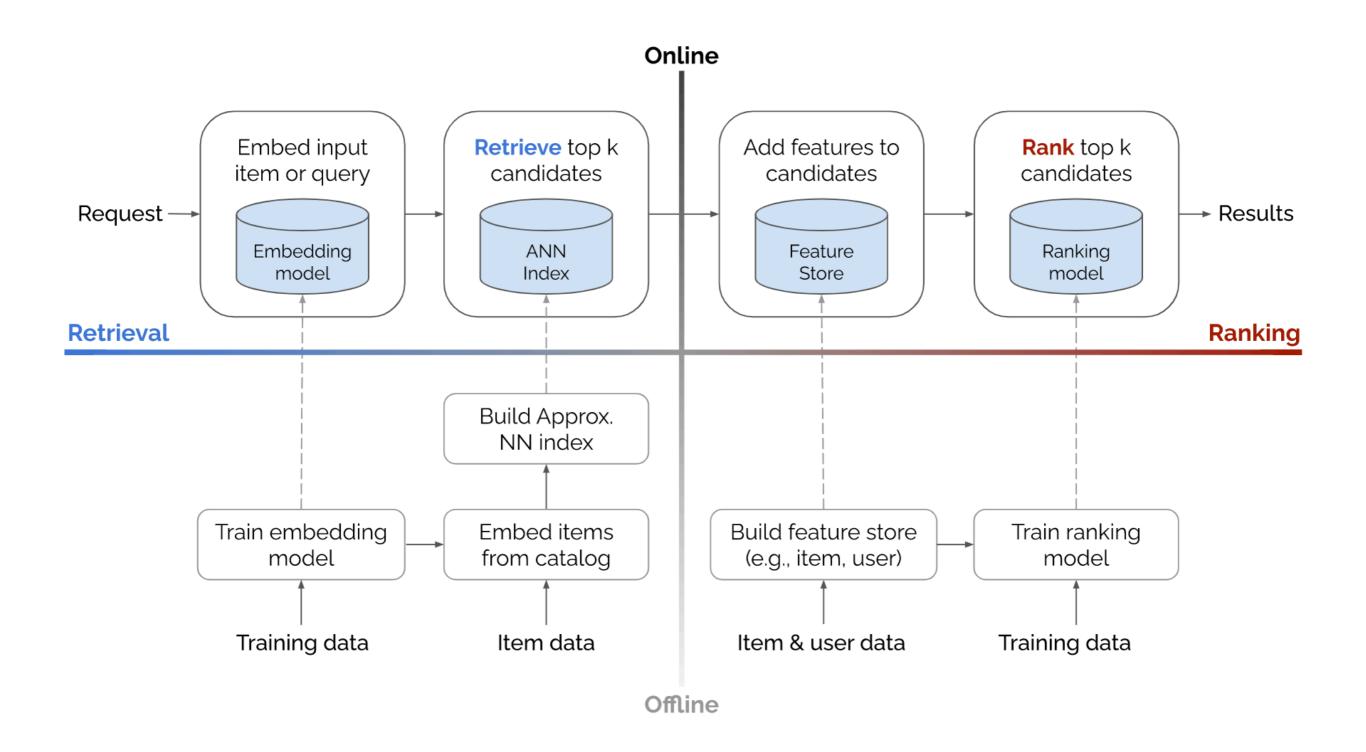


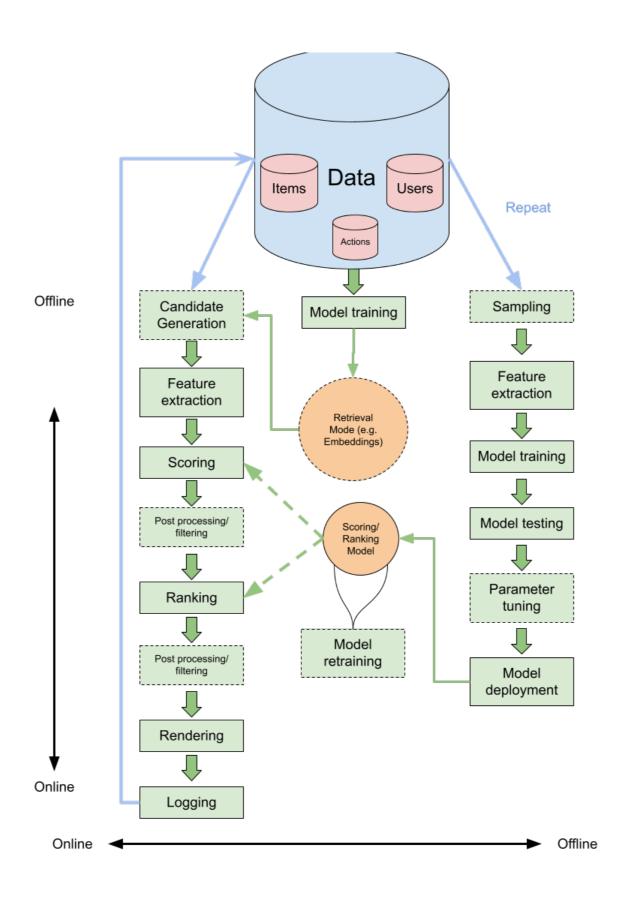












"Blueprints for recommender system architectures: 10th anniversary edition", Xavier Amatriain, January 2023