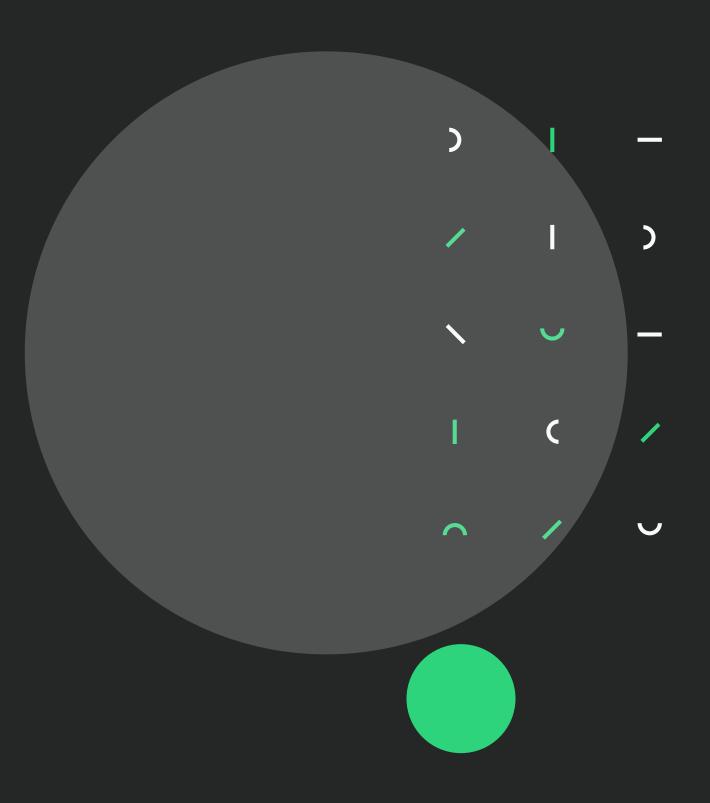
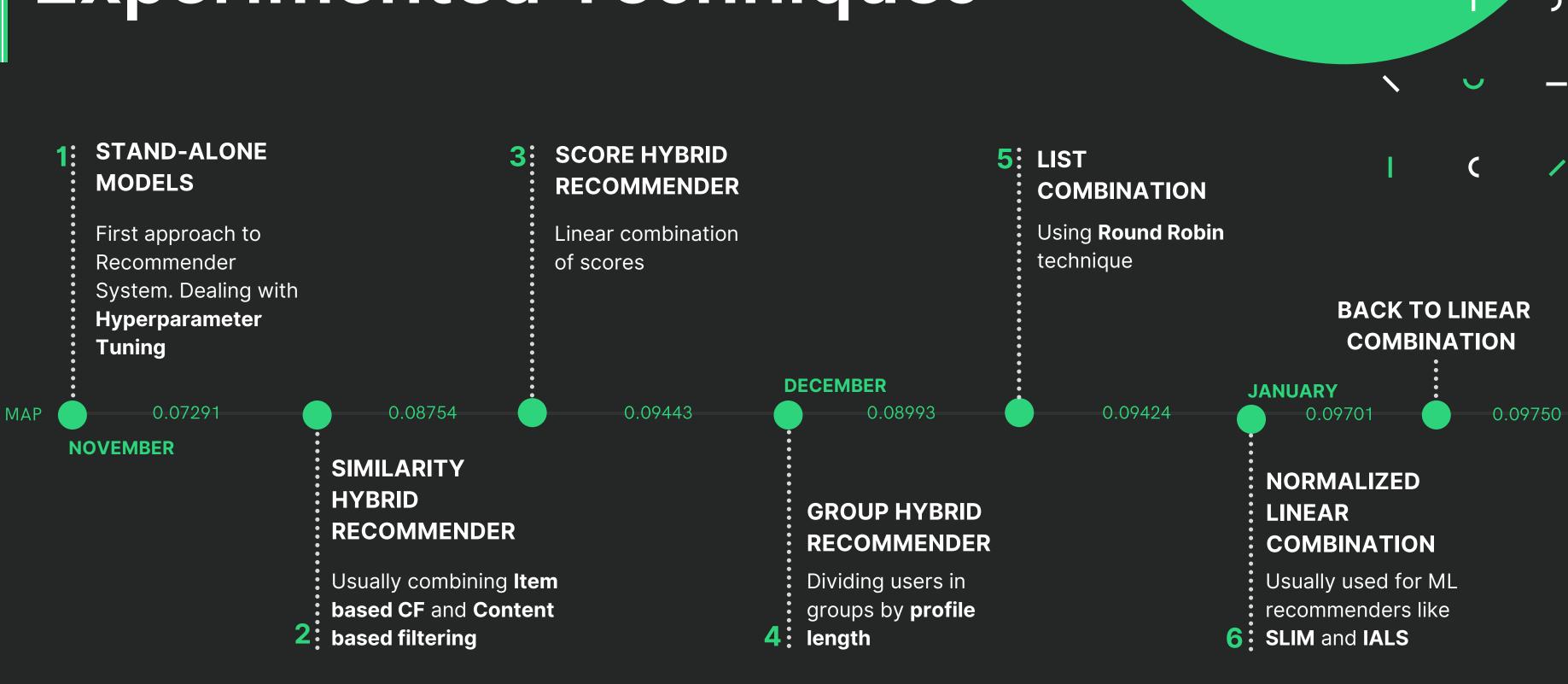
RECOMMENDER SYSTEM CHALLENGE



Experimented Techniques



BEST ALGORITHM

Score Hybrid Recommender
Linear combination of scores

INPUT: URM + ICM

TUNING: 5-fold cross validation

MAP@10 = 0.107946

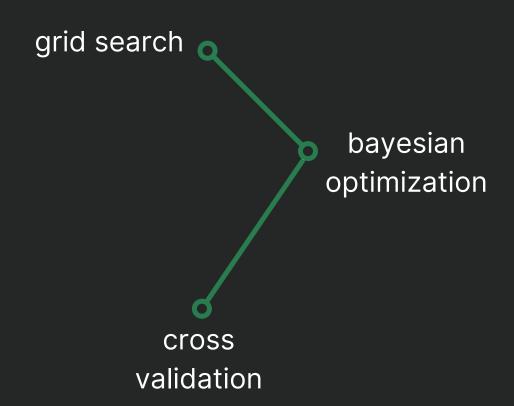
MAP@10_{public} = 0.09750

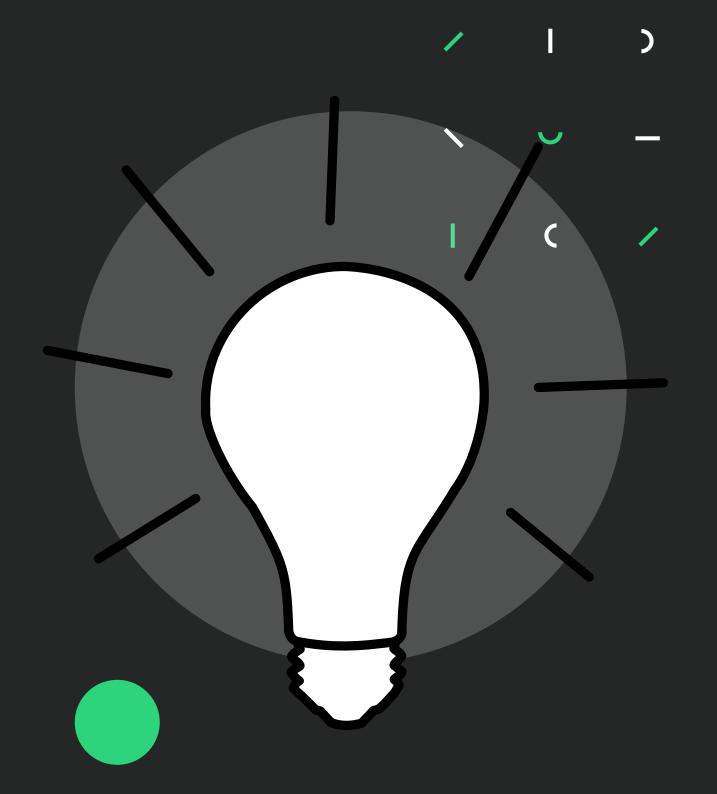
MAP@10_{local} = 0.07977

Rp3Beta 51.64%

IALS 15.18% Slim
Elastic Net
33.18%

HYPERPARAMETER TUNING





URM + ICM

Merging with vertical stack
the two matrices made a
huge difference in
recommendation quality

using scipy.sparse

sps.vstack([URM_train, ICM_all.T])

What made the difference

TEAM

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