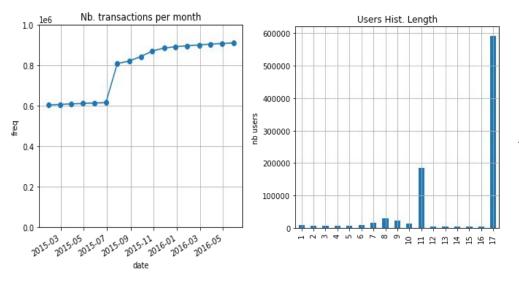
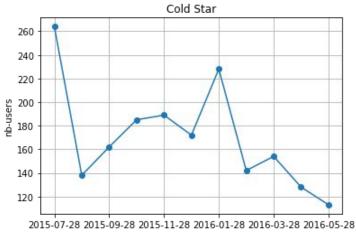
RecSys Challenge

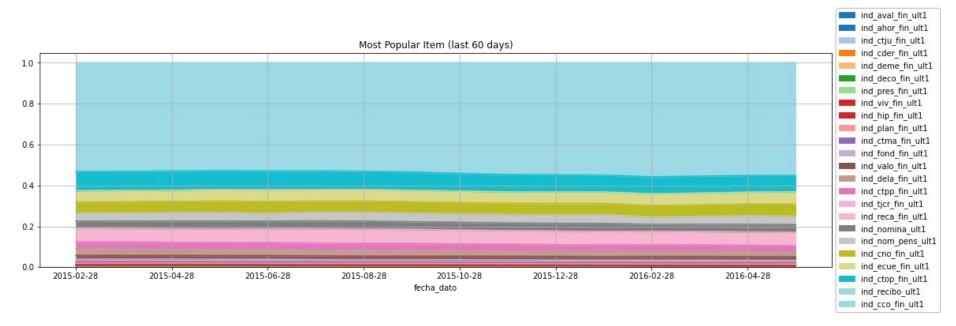


The Data

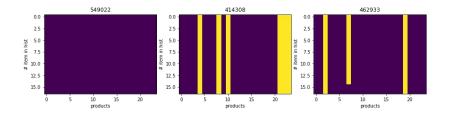


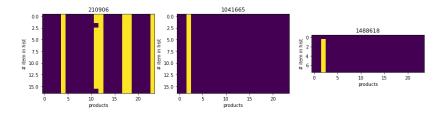


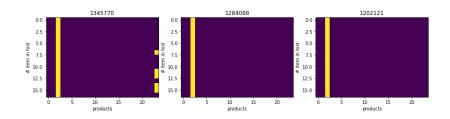
The Data



The Data







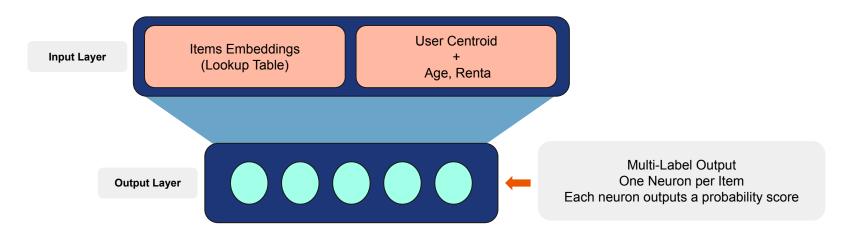
The Challengers

Most Popular Item in last 60 Days
(Non-User-Personalized)
(Date-based)

RecSys NN.
(User Hist. Emb + Dense Features)

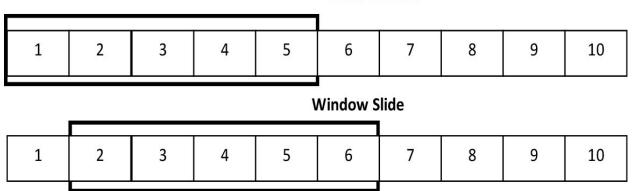
- Most Popular Item by User in last 90
 Days
 (Personalized)
- LightFM. (Only Interaction Features)

RecSys NN



Evaluation Methodology

Initial Window



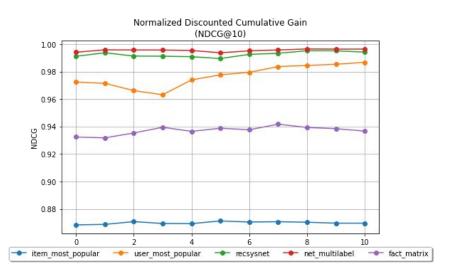
Evaluation Metric NDCG

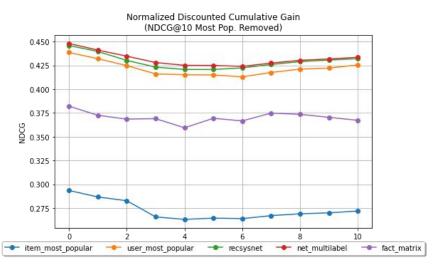
i	rel_i	$\log_2(i+1)$	$\frac{rel_i}{\log_2(i+1)}$
1	3	1	3
2	2	1.585	1.262
3	3	2	1.5
4	0	2.322	0
5	1	2.585	0.387
6	2	2.807	0.712

$$ext{DCG}_6 = \sum_{i=1}^6 rac{rel_i}{\log_2(i+1)} = 3 + 1.262 + 1.5 + 0 + 0.387 + 0.712 = 6.861$$

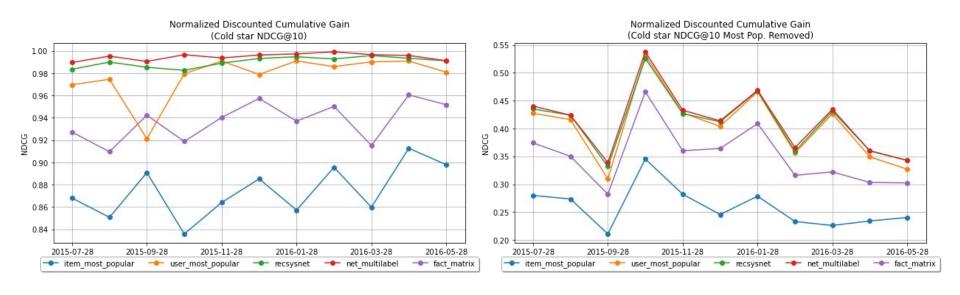
$$nDCG_p = \frac{DCG_p}{IDCG_p},$$

Results

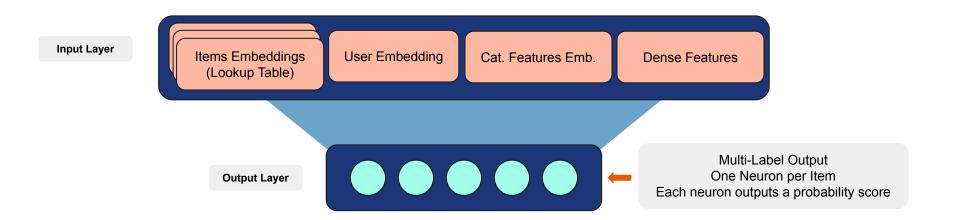




Results



Future Work



Thank you.

The Source code

