### \*\*Toloka



# Improving Recommender Systems with Human-in-the-Loop

Dmitry Ustalov, Natalia Fedorova, Nikita Pavlichenko, Maxim Kunakov, Fedor Zhdanov

## Part IV Practice Session

Natalia Fedorova / Maxim Kunakov, Educational Project Manager / Solutions Engineer

#### **Tutorial Schedule**

Part I Intro: 10 min
Introduction

Part III: 20 min
Human-in-the-Loop Essentials

Part III: 20 min Human-in-the-Loop Essentials Part IV: 50 min Hands-On Practice Session **Coffee Break:** 10 min

Part VI: 30 min
From Human Labels to
Ground Truth

Part VII: 10 min
Conclusion

#### Practice session: scope

Imagine that you develop a machine learning pipeline to help improve Recommender Systems

You have a dataset of products and recommendations

- You need to get a ranked list of recommendations
- These collected data will further be used to train a Recommender System

#### Practice session: scope

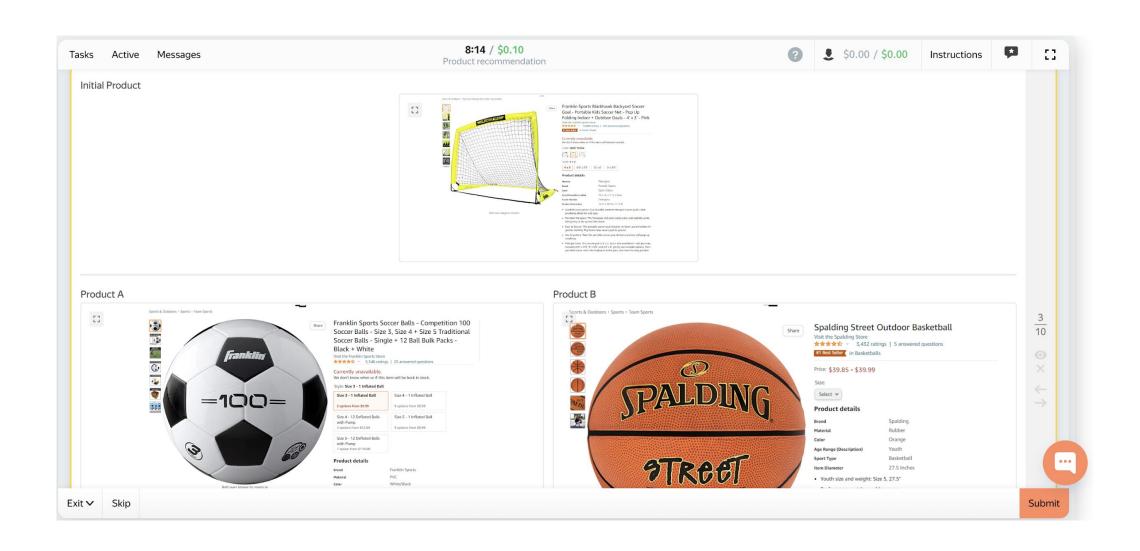
Imagine that you develop a machine learning pipeline to help improve Recommender Systems

You have a dataset of products and recommendations

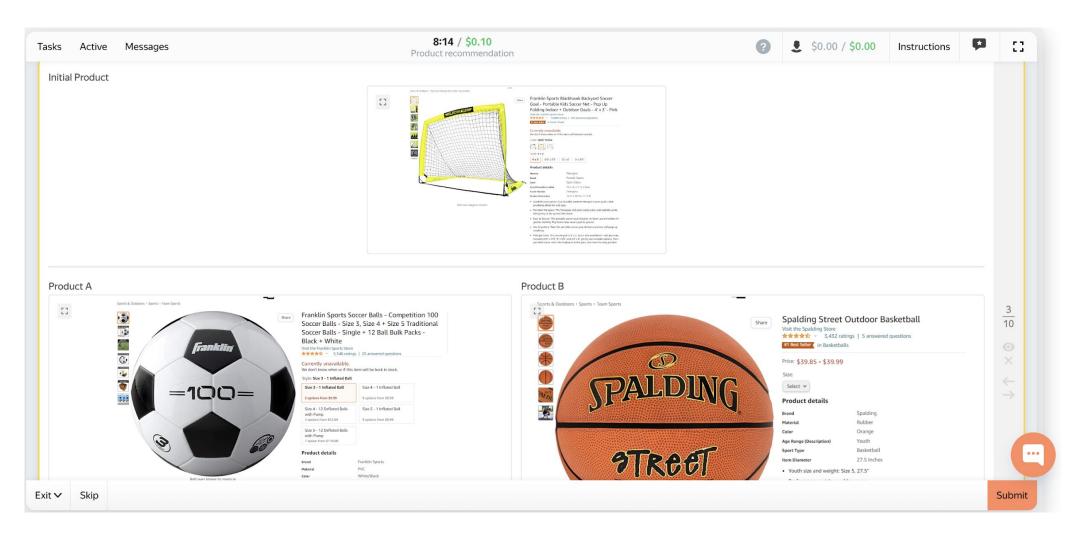
- You need to get a ranked list of recommendations
- These collected data will further be used to train a Recommender System

It is your goal during the practice session of our tutorial

### What recommendation of a complementary product is better?



### What recommendation of a complementary product is better?



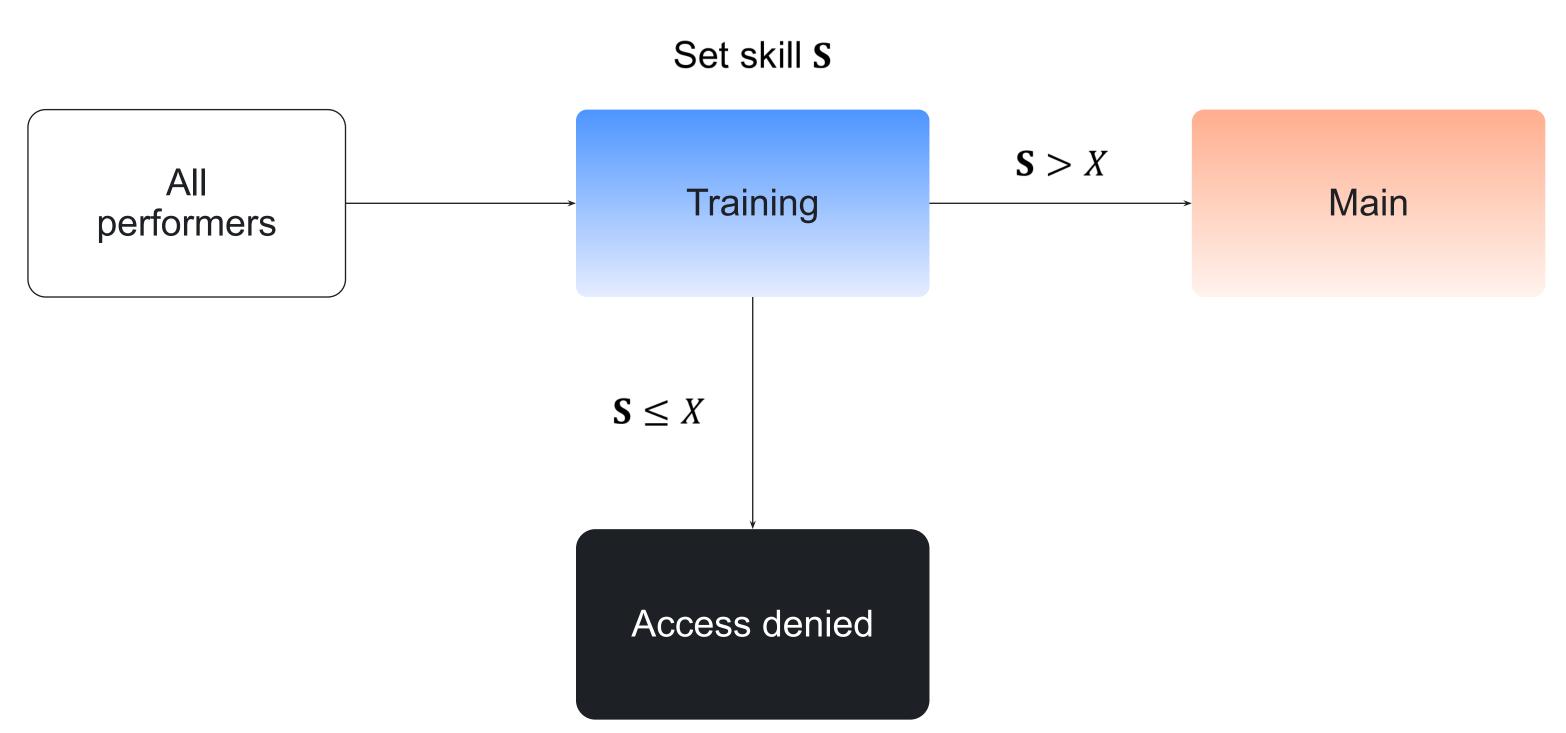
#### Task

What recommendation of a complementary product is better?

#### **Settings**

- ► Type: SbS
- Training: yes
- Quality control: golden set
- Pay: \$0.05 per 1 page with 10 tasks
- ► Time: 600 sec per 1 page

#### Performer training



#### We are starting the practice session: 45 min

#### We share you links to:

- A step-by-step guide to configure and run data labeling
- A dataset with products and recommendations
- Promo code to use Toloka as a requester

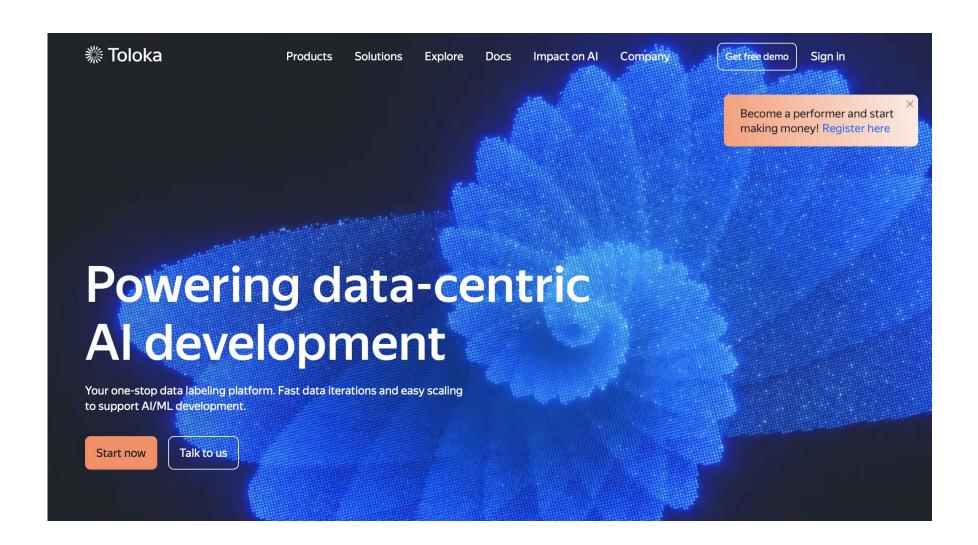
Step-by-step instruction:

bit.ly/3RVHt6S



#### Sign up on Toloka as a requester

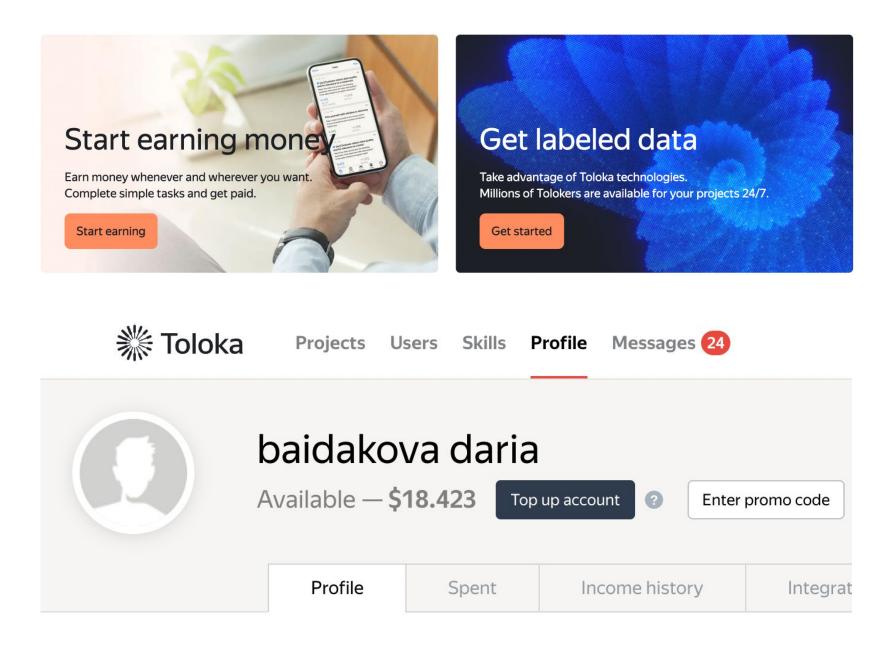
- 1. Go to toloka.ai
- 2. Click on "Start now"



#### Sign up on Toloka as a requester

- Click on "Get labeled data"
- 4. Use your email and password
- 5. Go to Profile and use promocode

#### I want to...



# PROMO CODE: RecSys2022

# Toloka demo 5 min

### Join our Slack: recsys\_2022

Natalia Fedorova Educational Project Manager



natfedorova@toloka.ai



https://toloka.ai/events/recsys-2022/



https://bit.ly/3eYIX2P

#### Useful links

1. Manual bit.ly/3RVHt6S

#### 2. Interface

https://docs.google.com/document/d/12nauScNVSWpifDBYz30Zn03kLgrUPTndOfAB03ZQb-0/edit?usp = sharing

#### 3. Input data

https://docs.google.com/document/d/1Bmlq-IRmDV3NtxOYRt0TPyLbj2cbfhZ-2oPTXVH6U9w/edit?usp=sharing

#### 4. Instructions

https://docs.google.com/document/d/16PF7pFpnf5yvdjYT7UDYNx2MT3YPP8GwNMtbG3pqFtg/edit?usp=sharing

#### 5. Train dataset

https://drive.google.com/file/d/1RoyvOcXCpQIFrqH9QM06Wd3n9H2gO9lf/view?usp=sharing

#### 6. Main dataset

https://drive.google.com/file/d/1752D9fgc6xXBUO-bKy0KaJ0hcLLG984j/view?usp=sharing