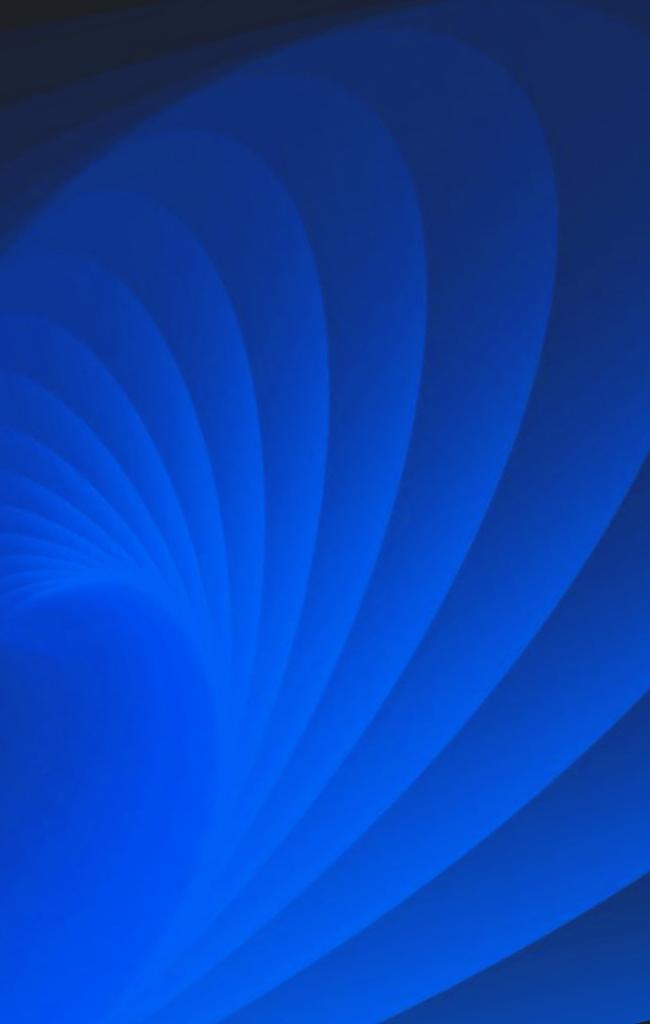
Part II

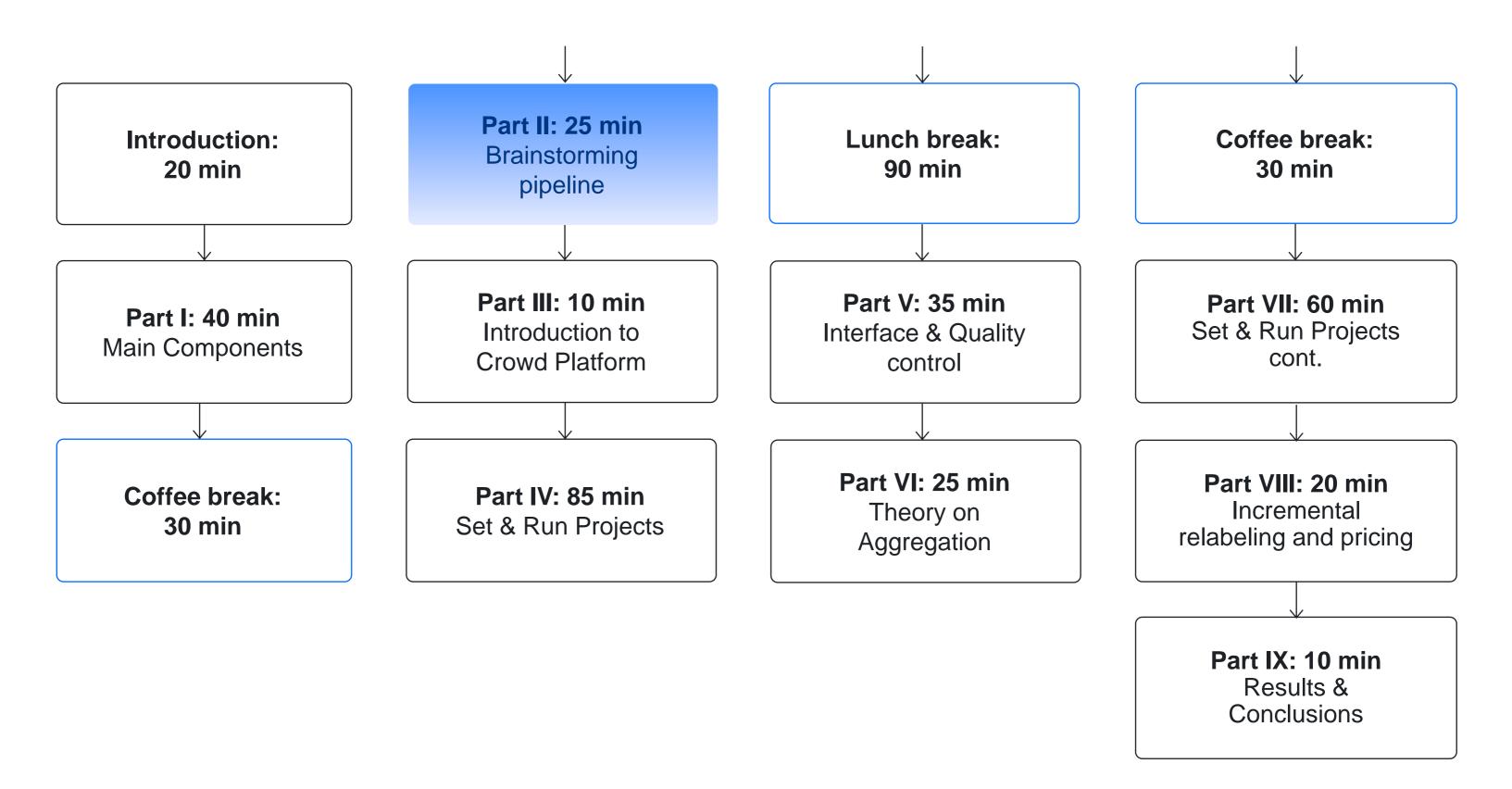
Label collection projects to be done

Daria Baidakova, Project Manager

Toloka



Tutorial schedule



Practice session

Our practice session will consist of three parts:

Part I (now)

Think and discuss in groups how you would design a crowdsourcing pipeline

Part II (in 35 min)

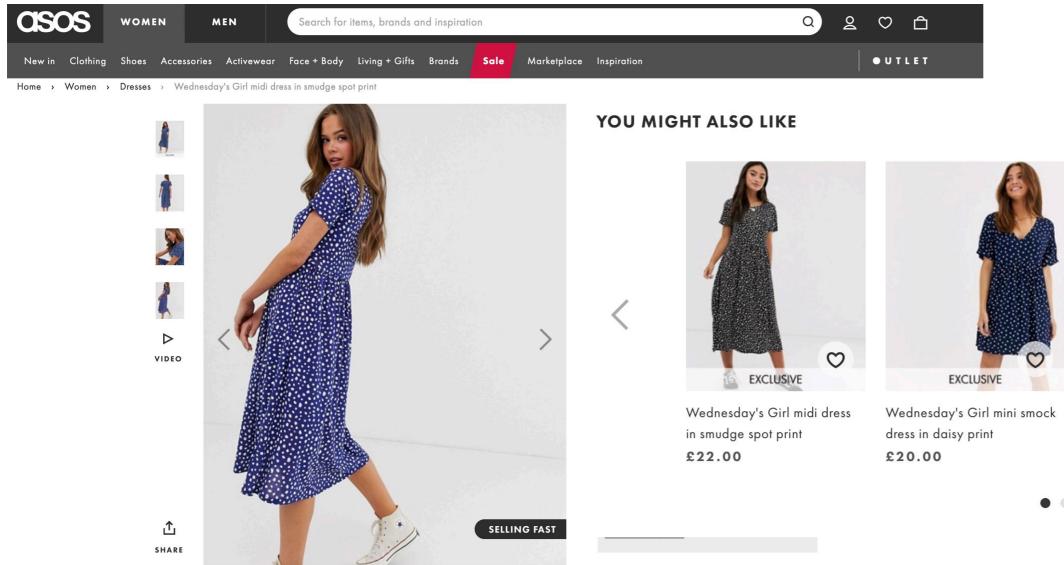
Run the best-practice pipeline on a real crowd on Toloka

Part III (in 145 min)

Complete the pipeline on Toloka

Practice session: scope

Imagine that you develop a machine learning pipeline to help improve search quality at an online store to find substitutes





ASOS DESIGN tiered long sleeve smock maxi dress ... £42.00



New Look tiered smock midi dress in multi colour.. £20.50 £25.99

. . . .

Practice session: scope

Imagine that you develop a machine learning pipeline to help improve search quality at an online store to find substitutes

You have a dataset of pictures with people wearing different clothes

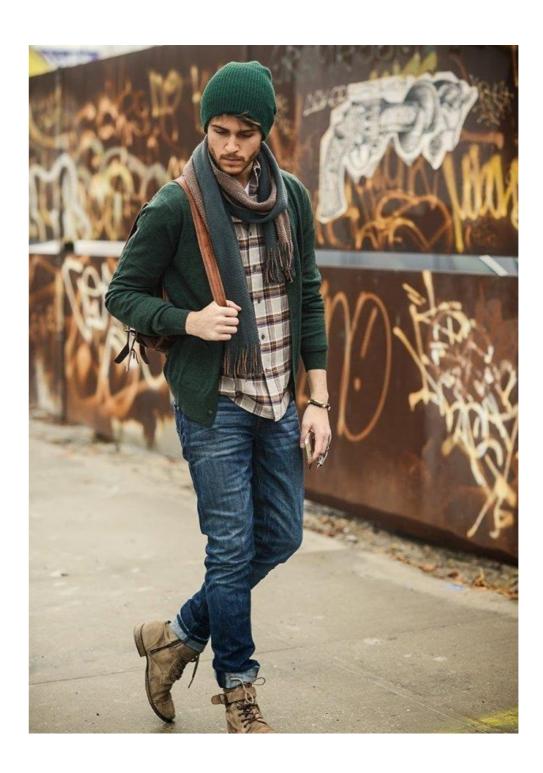
You need to find a better substitute for the initial item in an image

These collected data will further be used to train a search algorithm

This is your goal for the practice session of our tutorial

Dataset under study: pictures of people wearing different clothing items





Items to be matched in photos

Each photo may contain clothing items of different types, for example:

- ► Hats
- ► Shirts
- ► Jackets
- Coats
- ► Jeans
- Pants (trousers)
- ► Bags
- ► Sunglasses
- ► Other items

| Du | |
|----|--|
| _ | |

Choose one type of items you want to find substitutes for in the photos

ng your practice:

For example: Shoes

Formal setup: find the best substitute item

- Each clothing item of a selected type in each photo from the dataset needs to be matched by a substitute item
- Let us do it via crowdsourcing

Example: we decide to find the best substitute for the shoes, so our pipeline would be like..

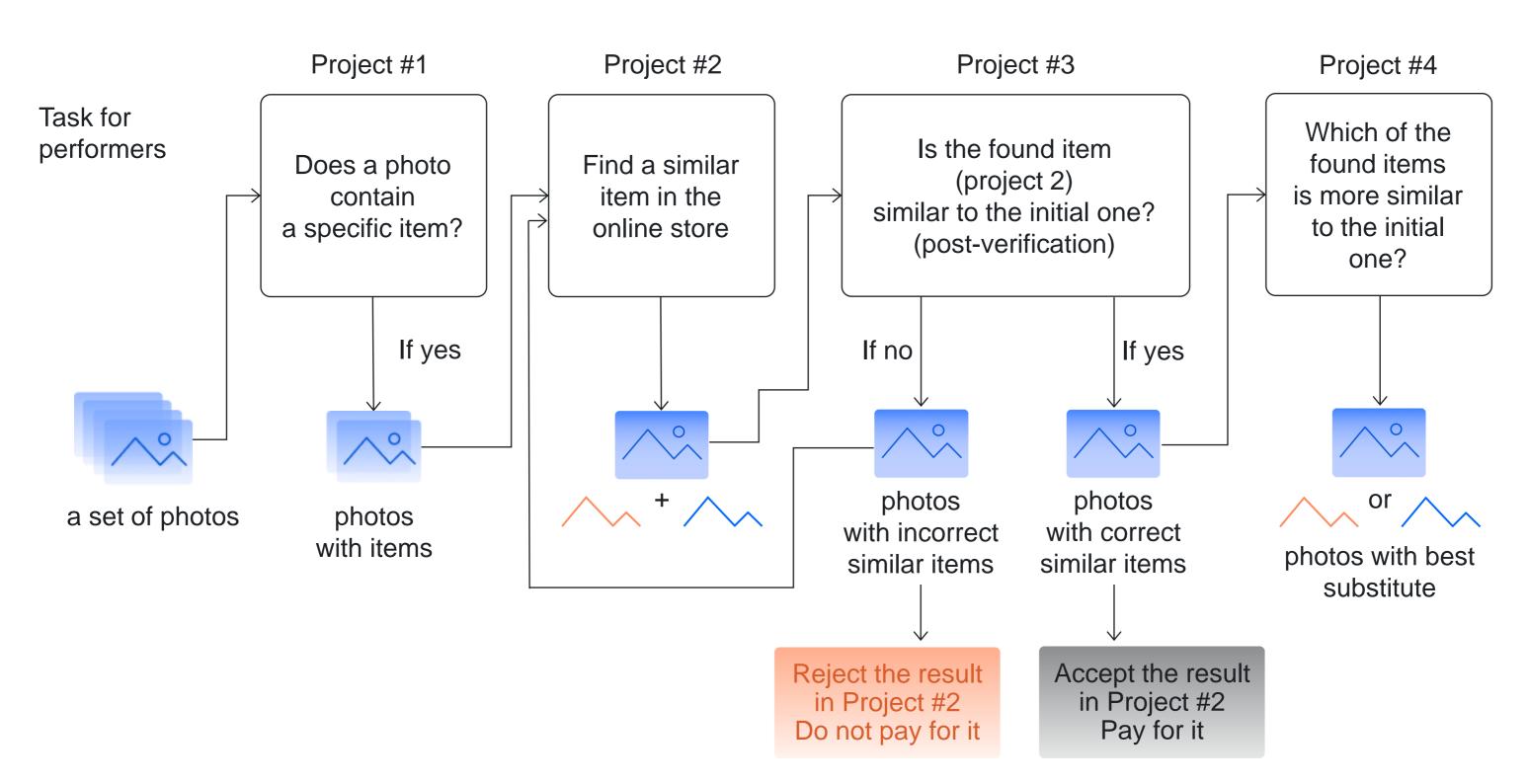
During your practice:

Discuss in groups how you would design a crowd pipeline to find the best substitute!

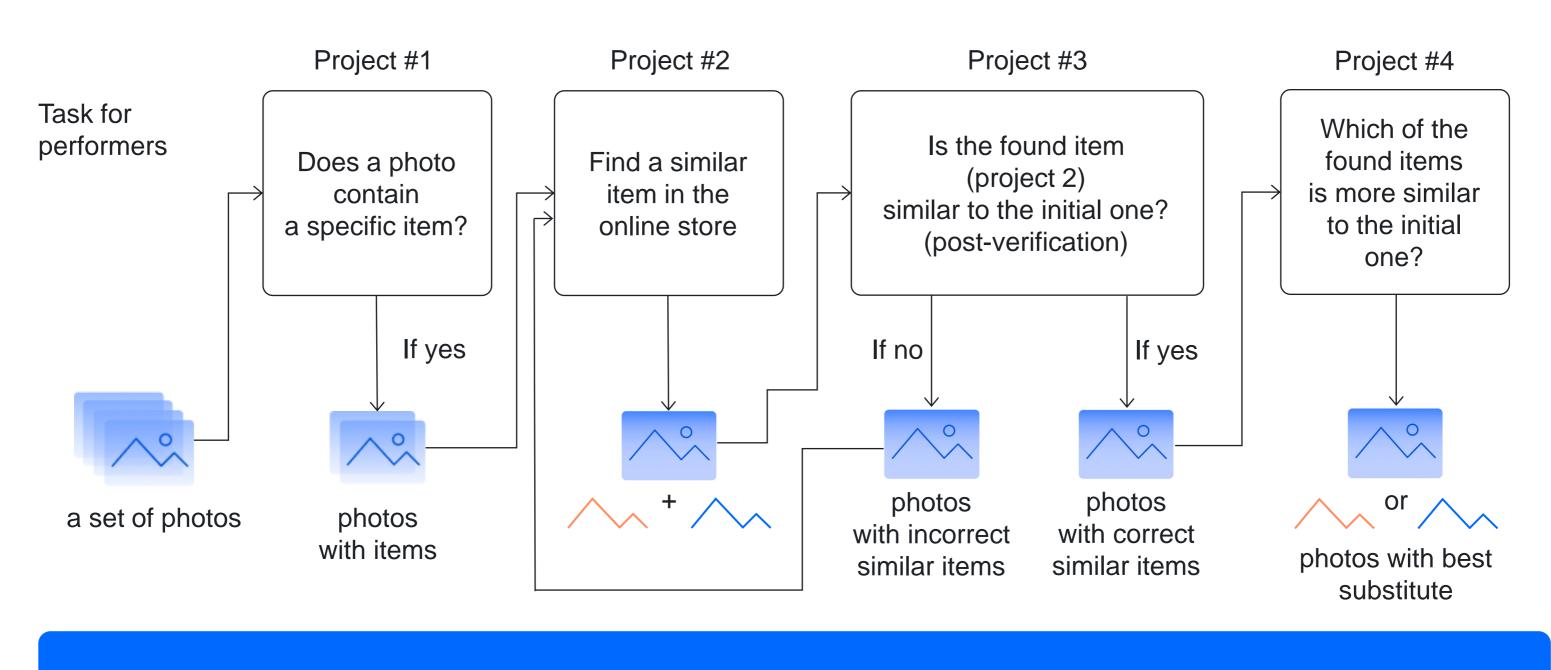
Suggested pipeline



We suggest the following pipeline



We suggest the following pipeline



During the practical session we will help you implement and run this pipeline

Project #1: Filter out photos without objects

Task

Does a photo contain an item of desired type?

Key setting

- ► Type: classification
- Quality control: golden set
- Overlap: 3 answers per photo
- Pay: \$0.01 per a suite of 10 photo

Why?

Save money: no need to process further photos without desired objects



Are there **shoes** in the picture?

○ Yes ○ No ○ Picture not found

Project #2: Searching for similar items on the online store

Task

Find a similar item on the internet

Key setting

- Type: product photo search
- Quality control: post verification
- Overlap: 3 answers per photo
- Pay: \$0.02 per 1 photo

Peculiar properties

- Hard to use golden set and consensus
- Results will be verified in Project #3



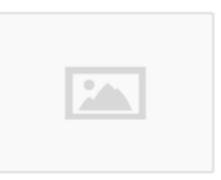
Find the same shoes on ASOS

ASOS

Shoes must be the same color and the same style.

Paste the link here

Upload the image here. The image should show the shoes you found.



Project #3: Accept correctness of items found

Task

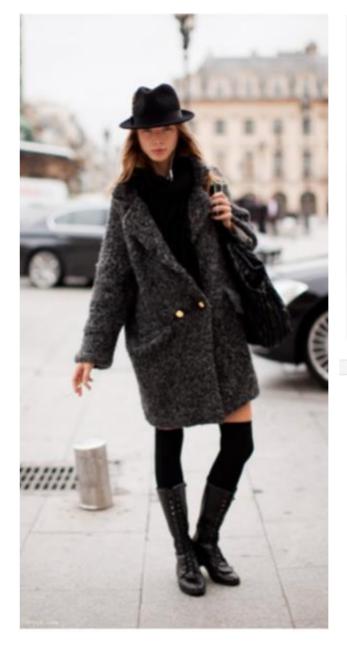
Does an image contain a requested item?

Key setting

- ► Type: classification
- Quality control: consensus
- Overlap: 3 answers per photo
- Pay: \$0.01 per a suite of 10 photo

Why?

Need to verify the results obtained from Project #2





Check that the uploaded image matches the product in the store.

Check the item

Are these **shoes** similar to each other?

Shoes must be the same color and the same style.

Yes No

Project #4: Decide which substitute works best

Task

Which of the items is similar to the initial one?

Key setting

- ► Type: side-by-side image comparison
- Quality control: consensus
- Overlap: 3 answers per photo
- Pay: \$0.01 per a task suite of 10 photo

Why?

Need to understand which substitute fits best



