### **Information Retrieval Lab**

Welcome to week 2 of the Information Retrieval class 2023

## **Agenda**

- 1. Organization
- 2. Project Info: Milestone 1
- 3. Hands-on Tutorial: How to do last weeks tutorial on TIRA

## Organization

Did you find groups?

If not -> EMAIL US

☐ Theresa: theresa.elstner@uni-leipzig.de

□ Harry: harry.scells@uni-leipzig.de

General

You will create a domain-specific search engine for scientific papers on Information Retrieval research.

#### Overall Goal:

- Process a raw dataset that you will use as the basis for your domain-specific information retrieval system
- □ Dataset: "IR-Anthology" contains abstracts of scientific papers on information retrieval over the past decades.

```
https://ir.webis.de/anthology/
```

Download dataset from here

```
https://files.webis.de/teaching/ir-ss23/
```

# **Tangent**

### IR Evaluation



What to do

- Process the documents in the raw "IR-Anthology" dataset into format compatible with Milestone 2
  - i.e., ir\_datasets
- Create topics that represent several information needs
  - for inspiration, see content from lecture slides

What to do

### The processed dataset will consist of:

1. the document collection in .jsonl-format, a form consistent with

ir\_datasets, e.g., like so

```
{"doc_id": "0001", "text": "How quickly daft jumping zebras vex."}
{"doc_id": "0002", "text": "Quick fox jumps nightly above wizard."}
{"doc_id": "0003", "text": "The jay, pig, fox, zebra and my wolves quack!"}
```

2. your custom topics for your dataset in TREC XML-format, e.g., like so:

```
<topics>
 <topic number="1">
    <title>fox jumps above animal</title>
    <description>What pangrams have a fox jumping above some animal?</description>
    <narrative>Relevant pangrams have a fox jumping over an animal (e.g., an dog). Pangrams
        containing a fox that is not jumping or jumps over something that is not an animal are
         not relevant.</narrative>
 </topic>
 <topic number="2">
    <title>multiple animals including a zebra</title>
    <description>Which pangrams have multiple animals where one of the animals is a zebra?
        description>
    <narrative>Relevant pangrams have at least two animals, one of the animals must be a zebra
        . Pangrams containing only a zebra are not relevant.</narrative>
  </topic>
</topics>
```

What to do

- Register your processed dataset into ir\_datasets (like in last week's tutorial)
- You must register it using the name iranthology-<team>
  - Where <team> is your team name in TIRA

Reminder: check out further resources on the course webpage (python, jupyter, commandline tutorial)

### Submission in TIRA

- You will receive two invite links
  - One link to invite you to your group in TIRA
  - One link to invite you to the TIRA submission page

What to hand in

Hand in one jupyter notebook per group that performs these steps on TIRA

- □ We have created a template notebook with all cell types that must be contained here https://temir.org/teaching/information-retrieval-ss23/template-notebook.ipynb
- Your jupyter notebook will produce the input for Milestone 2
- We show you how to do this in the first two tutorials

**DEADLINE FOR THIS NOTEBOOK 02.05.23** (approx. 3 weeks from now)

### Hands-on Tutorial: How to do last weeks tutorial on TIRA

#### TIRA tutorial

- https://www.tira.io/t/ how-to-organize-a-ir-task-with-ir-datasets/1444
- □ Follow these steps now, in class, or in your own time.

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- Harry: harry.scells@uni-leipzig.de

## **SHARKI Survey**

- □ https://umfrage.uni-leipzig.de/index.php/715264?lang=en
- □ https://umfrage.uni-leipzig.de/index.php/715264?lang=de