

Vadim T. Galimov

DLBA final project

Deep Learning for
Business Applications



Image classification

categories

```
▼ root:
  ▼ classes: [] 5 items
    0: "a photo of nature"
    1: "a photo of cat"
    2: "a photo of a food"
    3: "a photo of people"
    4: "a photo of fire"
  ▼ db_dict:
    a photo of nature: "nature"
    a photo of cat: "cats"
    a photo of a food: "food"
    a photo of people: "people"
    a photo of fire: "fire"
  th_others: 0.5
  imgs_path: "/home/jovyan/dlba/topic_09/app/data"
```

Image classification

friends refs for faces recognition

Database contains images of the friends

Here you can see all images of the friends and update databases with new people.

Gallery

Width:



The use_column_width parameter has been deprecated and will be removed in a future release. Please utilize the use_container_width parameter instead.

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di_caprio



tom



jimmy

Image classification

YOLO11n-seg



Image classification

class selection



Looks like it is a photo of people

Image saved as: people

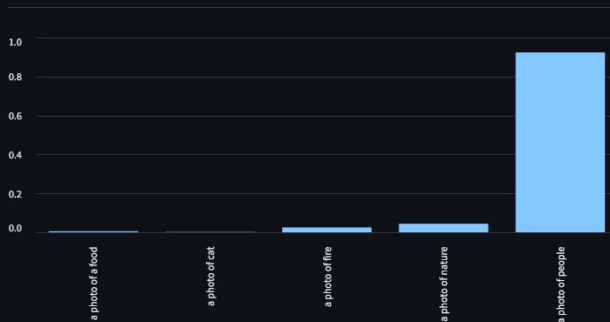
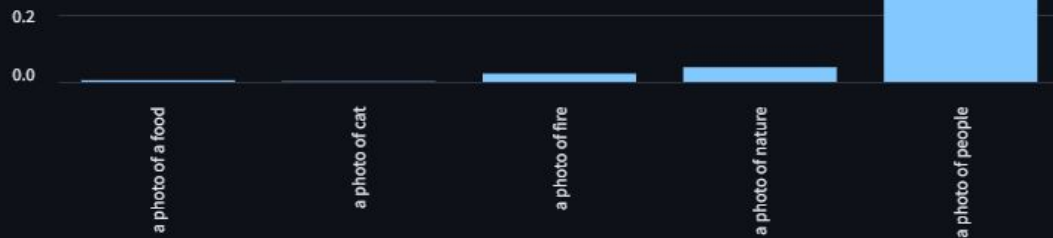


Image classification

face and emotion recognition



Faces recognition results

Found: tom

The emotion: happy

OCR and summary

Tesseract and PT HF model

Establishing a territory

Previous research:

- ▶ Walter Lippmann wrote: "Literature being first of all the epitome of a language's power, is the maximum of its potential as a tool to make sense of the abstract. It is a common fact that each culture has its own language (or dialect), so the literature is like a portrait of this culture. A literary text is the cultural prism through which the author sees the world, and in studying this we can learn a great deal about the time and place that a piece of literature originated from. This is also why it is said that the best literature is the one that is well anchored in society and history."



Text extracted

Establishing a territory

Pre

ious research:

Walter Lippmann wrote: "Literature being first of all the epitome of a language's power, is the maximum of its potential as a tool to make sense of the abstract. It is a common fact that each culture has its own language (or dialect), so the literature is like a portrait of this culture. A literary text is the cultural prism through which the author sees the world, and in studying this we can learn a great deal about the time and place that a piece of literature originated from. This is also why it is said that the best literature is the one that is well anchored in society and history."

Text summary

Literature is the cultural prism through which the author sees the world . The best literature is the one that is well anchored in society and history .

Logs

for previous operations

Stats of AI-assistant for image processing

2024-11-27 20:04:14.327931 - file "tom.jpg" saved in database

2024-11-27 20:04:19.858497 - file "di_caprio.jpg" saved in database

2024-11-27 20:04:24.469262 - file "jimmy.jpg" saved in database

2024-11-27 20:05:55.227140 - file "tom_2.jpg" got caption "ke and tom at the premiere of the movie ' s"

2024-11-27 20:05:55.960184 - file "tom_2.jpg" objects detected "person ,person"

2024-11-27 20:05:56.434637 - file "tom_2.jpg" saved as "people" category "a photo of people"

2024-11-27 20:06:02.953278 - file "tom_2.jpg" faces foundtom

2024-11-27 20:06:04.208631 - file "tom_2.jpg" emotions found: happy

2024-11-27 20:14:39.517017 - file "literature.jpg"

Gallery

auto-sorted images

Gallery of images from category -food-

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food.jpg

Gallery of images from category -people-

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Gallery

default group for undefined images

Gallery of images from category -other-

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plane.jpg

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