

Опенсорс решения для разработки собственных проектов

ML & Data Science lesson 9

 transformers Public

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.github	feat: add benchmarks pg indexes (#34536)	2 weeks ago
benchmark	feat: add benchmarks pg indexes (#34536)	2 weeks ago
docker	Use torch 2.5 in scheduled CI (#34465)	2 weeks ago
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src/transformers	Fix example in EsmConfig docstring (#34653)	15 hours ago
templates	Trainer - deprecate tokenizer for processing_class (#32385)	last month
tests	Agents: Small fixes in streaming to gradio + add tests (#345...	3 days ago
utils	Large modular logic refactoring (#34487)	2 weeks ago
.gitattributes	Add trajectory transformer (#17141)	2 years ago
.gitignore	[Tokenizer] attemp to fix add_token issues ...	last year

About

Transformers: State-of-the-art Machine Learning for Pytorch, TensorFlow, and JAX.

huggingface.co/transformers

- python nlp machine-learning
- natural-language-processing deep-learning
- tensorflow pytorch transformer
- speech-recognition seq2seq flax
- pretrained-models language-models
- nlp-library language-model
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Transformers

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Современное машинное обучение для JAX, PyTorch и TensorFlow



Part of the Hugging Face course!

😊 Transformers предоставляет тысячи предварительно обученных моделей для выполнения различных задач, таких как текст, зрение и аудио.

Эти модели могут быть применены к:

- 📄 Тексту для таких задач, как классификация текстов, извлечение информации, ответы на вопросы, обобщение, перевод, генерация текстов на более чем 100 языках.
- 🖼 Изображениям для задач классификации изображений, обнаружения объектов и сегментации.
- 🗣 Аудио для задач распознавания речи и классификации аудио.

Модели transformers также могут выполнять несколько задач, такие как ответы на табличные вопросы, распознавание оптических символов, извлечение информации из отсканированных документов, классификация видео и ответы на визуальные вопросы.

😊 Transformers предоставляет API для быстрой загрузки и использования предварительно обученных моделей, их тонкой настройки на собственных датасетах и последующего взаимодействия ими с сообществом на нашем [сайте](#). В то же время каждый python модуль, определяющий архитектуру, полностью автономен и может быть модифицирован для проведения быстрых исследовательских экспериментов.

Tasks

- Image Classification
- Translation
- Image Segmentation
- Fill-Mask
- Automatic Speech Recognition
- Token Classification
- Sentence Similarity
- Audio Classification
- Question Answering
- Summarization
- Zero-Shot Classification
- + 23 Tasks

Libraries

- PyTorch
- TensorFlow
- JAX
- + 32

Datasets

- mozilla-foundation/common_voice_7_0
- squad
- wikipedia
- common_voice
- glue
- emotion
- xtreme
- bookcorpus
- + 313

Languages


- English
- French
- Spanish
- German
- Chinese
- Japanese
- Portuguese
- Russian
- + 200

Licenses

- apache-2.0
- mit
- afl-3.0
- + 54

Models 90,141

[↑↓ Sort: Most Downloads](#)
bert-base-uncased
 • Updated 5 days ago • ↓ 24.4M • ♥ 338

 **openai/clip-vit-large-patch14**
 • Updated Oct 4 • ↓ 8.49M • ♥ 77

xlm-roberta-base
 • Updated 5 days ago • ↓ 8.43M • ♥ 111

distilbert-base-uncased-finetuned-sst-2-english
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bert-base-cased
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 **allenai/led-base-16384**
 • Updated Jan 11, 2021 • ↓ 2.67M • ♥ 13

gpt2
 • Updated 3 days ago • ↓ 19.1M • ♥ 309


 **allenai/specter**
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bert-base-multilingual-cased
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roberta-base
 • Updated Sep 29 • ↓ 7.14M • ♥ 83

 **Jean-Baptiste/camembert-ner**
 • Updated Oct 13 • ↓ 6.87M • ♥ 41

roberta-large
 • Updated Sep 29 • ↓ 3.91M • ♥ 67

 **vblagoje/bert-english-uncased-finetuned-pos**
 • Updated May 20, 2021 • ↓ 2.9M • ♥ 17

distilroberta-base
 • Updated 5 days ago • ↓ 2.51M • ♥ 37


```
import torch
import requests
from PIL import Image
from io import BytesIO
from transformers import AutoImageProcessor, AutoModelForImageClassification

response = requests.get(
    'https://github.com/laxmimerit/dog-cat-full-dataset/blob/master/data/train/cats/cat.10055'
)
img = Image.open(BytesIO(response.content))

img_proc = AutoImageProcessor.from_pretrained(
    'google/vit-base-patch16-224')
model = AutoModelForImageClassification.from_pretrained(
    'google/vit-base-patch16-224')

inputs = img_proc(img, return_tensors='pt')

with torch.no_grad():
    logits = model(**inputs).logits

predicted_id = logits.argmax(-1).item()
predicted_label = model.config.id2label[predicted_id]
print(predicted_id, '-', predicted_label)

#ВЫВОД
281 - tabby, tabby cat
```

 **s-nlp/russian_toxicity_classifier** 

like 36

Follow  s-nlp 21

Text Classification

Transformers

PyTorch

TensorFlow

Safetensors

Russian

bert

toxic comments classification

Inference Endpoints

License: openrail++

Model card

Files and versions

Community 1

Train

Deploy

Use this model

Bert-based classifier (finetuned from [Conversational Rubert](#)) trained on merge of Russian Language Toxic Comments [dataset](#) collected from 2ch.hk and Toxic Russian Comments [dataset](#) collected from ok.ru.

The datasets were merged, shuffled, and split into train, dev, test splits in 80-10-10 proportion. The metrics obtained from test dataset is as follows

	precision	recall	f1-score	support
0	0.98	0.99	0.98	21384
1	0.94	0.92	0.93	4886
accuracy			0.97	26270
macro avg	0.96	0.96	0.96	26270
weighted avg	0.97	0.97	0.97	26270

How to use

```
from transformers import BertTokenizer, BertForSequenceClassification
```

Edit model card



Safetensors

Model size178M paramsTensor typeI64 · F32

Inference API

Warm

Text Classification

Examples

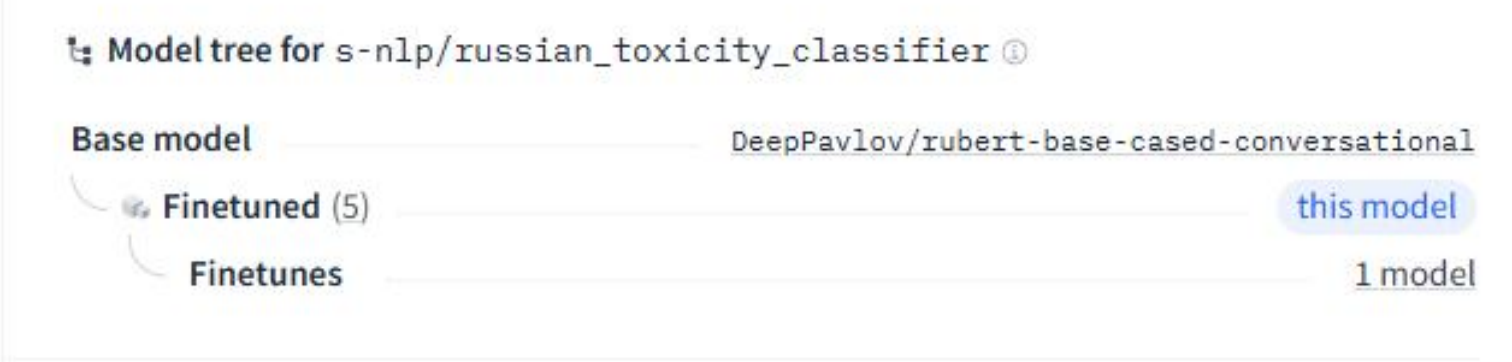
Ты мне нравишься. Я тебя люблю

Compute

View Code

0.8s

Maximize



Spaces using s-nlp/russian_toxicity_classifier 2

Dmitry72/Myspace2

Dmitry72/myspace1

Falconsai/**nsfw_image_detection** like 355 Follow Falcons.ai 45

Image Classification Transformers PyTorch Safetensors vit Inference Endpoints arxiv:2010.11929 License: apache-2.0

Model card Files and versions Community 12

Train Deploy Use this model

Model Card: Fine-Tuned Vision Transformer (ViT) for NSFW Image Classification

Model Description

The **Fine-Tuned Vision Transformer (ViT)** is a variant of the transformer encoder architecture, similar to BERT, that has been adapted for image classification tasks. This specific model, named "google/vit-base-patch16-224-in21k," is pre-trained on a substantial collection of images in a supervised manner, leveraging the ImageNet-21k dataset. The images in the pre-training dataset are resized to a resolution of 224x224 pixels, making it suitable for a wide range of image recognition tasks.

During the training phase, meticulous attention was given to hyperparameter settings to ensure optimal model performance. The model was fine-tuned with a judiciously chosen batch size of 16. This choice not only balanced computational efficiency but also allowed for the model to effectively process and learn from a diverse array of images.

To facilitate this fine-tuning process, a learning rate of 5e-5 was employed. The learning rate serves as a critical tuning parameter that dictates the magnitude of adjustments made to the model's parameters during training. In this case, a learning rate of 5e-5 was selected to strike a harmonious balance between rapid convergence and steady optimization, resulting in a model that not only learns swiftly but also steadily refines its capabilities throughout the training process.

This training phase was executed using a proprietary dataset containing an extensive collection of 80,000 images, each characterized by a substantial degree of variability. The dataset was

Edit model card



Safetensors Model size 85.8M params Tensor type F32

Inference API Warm

Image Classification

Drag image file here or click to browse from your device

View Code Maximize







Model tree for Falconsai/nsfw_image_detection

Finetunes 5 models


Spaces using Falconsai/nsfw_image_detection 69

- yanze/PuLID-FLUX DamarJati/FLUX.1-DEV-Canny
- guardiancc/flux-advanced-explorer Deddy/PuLid-FLX-GPU
- sofianhw/PuLID-FLUX Nuno-Tome/simple_image_classifier
- JournalistsonHF/text-to-image-bias fantasy/flx-pulid

Audio

-  Text-to-Speech
-  Text-to-Audio
-  Automatic Speech Recognition
-  Audio-to-Audio
-  Audio Classification
-  Voice Activity Detection

Models 2,760

 Filter by name

Full-text search


↑↓ Sort: Trending

 ehcalabres/wav2vec2-lg-xlsr-en-speech-emotion-recog...
 Audio Classification • Updated 21 days ago •  79.7k •  169

 m-a-p/MERT-v1-330M
 Audio Classification • Updated May 7 •  15.7k •  48

 TalTechNLP/voxlingua107-epaca-tdnn
 Audio Classification • Updated Nov 4, 2021 •  10.1k •  28

 speechbrain/lang-id-voxlingua107-ecapa
 Audio Classification • Updated Jul 10 •  242k •  98

 JYP2024/voxceleb12_EBranchformer_Base
 Audio Classification • Updated about 13 hours ago •  2

 speechbrain/emotion-recognition-wav2vec2-IEM0CAP
 Audio Classification • Updated Jul 23 •  16.5k •  116

s. [stabilityai/stable-fast-3d](#) like 451 Follow Stability AI 6,037

Image-to-3D Safetensors allenai/objaverse arxiv:2408.00653 License: stabilityai-ai-community

Model card Files and versions Community 9

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12,642

 Safetensors ⓘ

Model size	1.01B params	Tensor type	F32	↗
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⚡ Inference API ⓘ

 Image-to-3D

Inference API (serverless) has been turned off for this model.

■ Dataset used to train `stabilityai/stable-fast-3d`

- allenai/objaverse

Updated Mar 31, 2023 • \downarrow 160k • \heartsuit 348

📦 Spaces using stabilityai/stable-fast-3d 10

stabilityai/TripoSR stabilityai/stable-fast-3d fengfeng2/QiLinWu
cocktailpeanut/stable-fast-3d Nymbo/stable-fast-3d SpaceHarmony/2dto3d
Nikhil0987/imageTO3d vibs08/stable-fast-3d sam-mata/sf3d-demo
KIMKIMKIMku/TripoSR

- Collection including `stabilityai/stable-fast-3d`

≡ Stable Fast 3D



Tasks Libraries Datasets Languages Licenses Other

Filter Tasks by name

Multimodal

Image-Text-to-Text

Visual Question Answering

Document Question Answering

Video-Text-to-Text

Any-to-Any

Computer Vision

Depth Estimation

Image Classification

Object Detection

Image Segmentation

Text-to-Image

Image-to-Text

Image-to-Image

Models 1,117,664

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Full-text search

Sort: Trending

Qwen/Qwen2.5-Coder-32B-Instruct

Text Generation • Updated 3 days ago • 18.9k • 512

tencent/Tencent-Hunyuan-Large

Text Generation • Updated 7 days ago • 116 • 447

infly/OpenCoder-8B-Instruct

Text Generation • Updated about 8 hours ago • 2.09k • 127

stabilityai/stable-diffusion-3.5-large

Text-to-Image • Updated 23 days ago • 222k • 1.18k

black-forest-labs/FLUX.1-dev

Text-to-Image • Updated Aug 16 • 1.35M • 6.34k

microsoft/OmniParser

Image-Text-to-Text • Updated 13 days ago • 7.27k • 1.21k

nvidia/Llama-3.1-Nemotron-70B-Instruct-HF

Text Generation • Updated 20 days ago • 249k • 1.62k

briaai/RMBG-2.0

Image Segmentation • Updated about 22 hours ago • 1.42k • 110



Public

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main

262 Branches 184 Tags

Go to file

Add file

Code



ysolanky Merge pull request #1442 from phidatahq/validation_fix

8ad7020 · 10 hours ago

2,265 Commits

.github/workflows	chore: close issues instead of PR	3 days ago
cookbook	Merge branch 'main' of https://github.com/phidatahq/phidata	13 hours ago
evals	v2.5.0a15	last month
phi	Merge branch 'main' of https://github.com/phidatahq/phidata	13 hours ago
scripts	Release reasy	last month
tests	Release reasy	last month
.editorconfig	fix .editorconfig	9 months ago
.gitignore	README	last month
CODE_OF_CONDUCT.md	Create CODE_OF_CONDUCT.md	9 months ago
CONTRIBUTING.md	update	3 weeks ago
LICENSE	README	last year
README.md	Docs: Typo Fix	2 weeks ago
pyproject.toml	validation fix	10 hours ago
requirements.txt	v2.5.1	last month
setup.py	Initial commit	last year

About

Build AI Agents with memory, knowledge, tools and reasoning. Chat with them using a beautiful Agent UI.

docs.phidata.com

python ai developer-tools agents

Readme

MPL-2.0 license

Code of conduct

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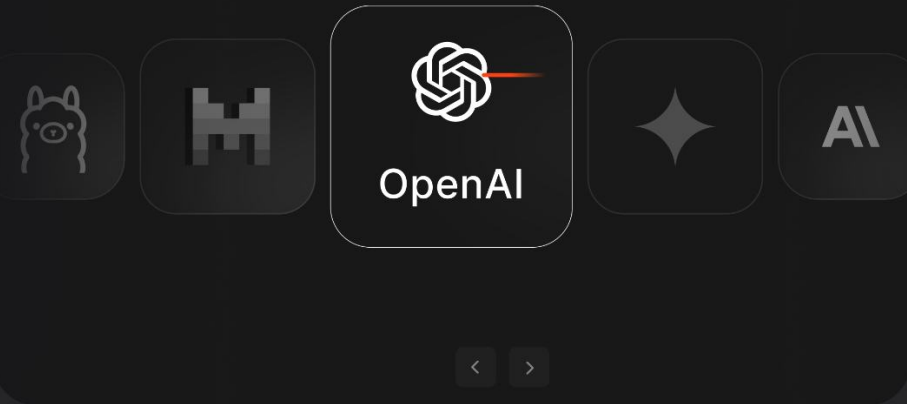
v2.5.31 Latest
2 days ago

+ 339 releases

Used by 473



Model



Memory



Memory updated ✓

Agent [12:21]

Hello, I am your agent.
I remember our chat history
no matter how far back it is.

database



Knowledge

Annual_Report.pdf

docs.acme.com

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Tools

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