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Annexes
Annex A: Software
Annex B: Third Party Software

Annex A - Software

Attribut	Beschreibung
Bezeichnung	Teuken-7B-instruct-research-v0.4
Modellfamilie	Teuken-chat
Parameter	7 Milliarden
Modelltyp	Transformer-basiert (nur Decoder)
Sprachen	Bulgarisch, Tschechisch, Dänisch, Deutsch, Griechisch, Englisch, Spanisch, Estnisch, Finnisch, Französisch, Irisch, Kroatisch, Ungarisch, Italienisch, Litauisch, Lettisch, Maltesisch, Niederländisch, Polnisch, Portugiesisch, Rumänisch, Slowakisch, Slowenisch, Schwedisch
Modellnutzung	Teuken-7B-base-v0.4 angepasst für Aufgaben der natürlichen Spracherzeugung in mehreren Sprachen innerhalb einer Konversation.
Eingabe/Ausgabe	Eingabe: Natürlichsprachliche Aufgaben Ausgabe: Erzeugte Lösung der Aufgabe oder freundliche Ablehnung der Aufgabe
Trainingsdaten	Über 600K Beispielkonversationen zwischen Nutzer und Modell
Trainingszeitraum	Das Modell wurde im September 2024 für drei Tage trainiert
Trainingsziel	Kausale Sprachmodellierung mit Fokus auf Modellausgaben in den Beispielkonversationen
Trainings-Hyperparameter	AdamW-Optimizer, Training mit gemischter Präzision (bf16), kein linearer Bias, 32 Schichten
GPU-Stunden	160 Stunden
Trainings-Hardware	NVIDIA H100 GPUs

Annex B - Third-Party Software

Name	Version	URL	SPDX-Identifier
Jinja2	3.1.2	https://palletsprojects.com/p/jinja/	BSD-3-Clause
MarkupSafe	2.1.1	https://palletsprojects.com/p/markupsafe/	BSD-3-Clause
PyYAML	6	https://pypi.org/project/PyYAML/	MIT
filelock	3.6.0	https://github.com/tox-dev/py-filelock	Unlicense
huggingface-hub	0.20.1	https://github.com/huggingface/huggingface_hub	Apache-2.0
numpy	1.26.2	https://numpy.org	BSD-3-Clause
packaging	21,3	https://pypi.org/project/packaging/	
regex	2022.4.24	https://github.com/mrabarnett/mrab-regex	Apache-2.0
requests	2.25.1	https://pypi.org/project/requests/	Apache-2.0
safetensors	0.4.1	https://github.com/huggingface/safetensors	Apache-2.0
sentencepiece	0.1.99	https://github.com/google/sentencepiece	Apache-2.0
sympy	1,9	https://sympy.org	BSD-3-Clause
tokenizers	0.15.0	https://github.com/huggingface/tokenizers	Apache-2.0
torch	1.12.0	https://pytorch.org/	BSD-3-Clause
transformers	4.36.2	https://github.com/huggingface/transformers	Apache-2.0
typing_extensions	4.9.0	https://github.com/python/typing_extensions	PSF-2.0
urllib3	1.26.9	https://urllib3.readthedocs.io/	MIT

The following Third-Party Software is also included in the Huggingface repository according to clause 1 of this license agreement, however, Fraunhofer expressly points out that the following Third-Party Software is not licensed under this license agreement, but under MPL-2.0, where applicable.

certifi	2020.6.20	https://certifiio.readthedocs.io/en/latest/	MPL-2.0
tqdm	4.66.5	https://github.com/tqdm/tqdm?tab=License-1-ov-file#readme	MIT and MPL-2.0