

介绍



笔记简介:

• 面向对象:深度学习初学者

• 依赖课程: 线性代数,统计概率,优化理论,图论,离散数学,微积分,信息论

知乎专栏:

https://zhuanlan.zhihu.com/p/693738275

Github & Gitee 地址:

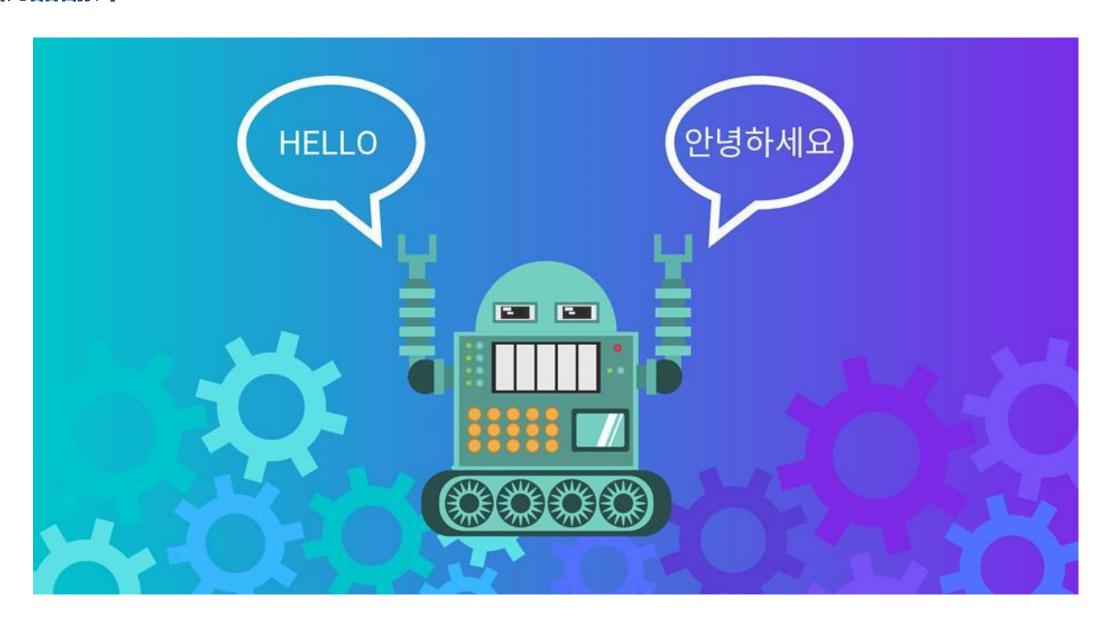
https://github.com/mymagicpower/AIAS/tree/main/deep learning

https://gitee.com/mymagicpower/AIAS/tree/main/deep_learning

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- 仅限用于个人学习
- 禁止用于任何商业用途

机器翻译



202种语言互相翻译 - SDK

主要特性

- 支持202种语言互相翻译。
- 支持 CPU / GPU

```
SearchConfig config = new SearchConfig();
// 设置输出文字的最大长度
config.setMaxSeqLength(128);
// 设置源语言: 中文 "zho_Hans": 256200
config.setSrcLangId(256200);
// 设置目标语言: 英文 "eng_Latn": 256047
config.setForcedBosTokenId(256047);
```

logger.info("{}", result);





4	A	В	С
1	Language	FLORES-200 code	Language Id
2	Acehnese (Arabic script)	ace_Arab	256001
3	Acehnese (Latin script)	ace_Latn	256002
4	Mesopotamian Arabic	acm_Arab	256003
5	Ta'izzi-Adeni Arabic	acq_Arab	256004
6	Tunisian Arabic	aeb_Arab	256005
7	Afrikaans	afr_Latn	256006
8	South Levantine Arabic	ajp_Arab	256007
9	Akan	aka_Latn	256008
10	Amharic	amh_Ethi	256009
11	North Levantine Arabic	apc_Arab	256010
12	Modern Standard Arabic	arb_Arab	256011
13	Najdi Arabic	ars_Arab	256012
14	Moroccan Arabic	ary_Arab	256013
15	Egyptian Arabic	arz_Arab	256014
16	Assamese	asm_Beng	256015
17	Asturian	ast_Latn	256016
18	Awadhi	awa_Deva	256017
19	Central Aymara	ayr_Latn	256018
20	South Azerbaijani	azb_Arab	256019
21	North Azerbaijani	azj_Latn	256020
22	Bashkir	bak_Cyrl	256021
23	Bambara	bam_Latn	256022
24	Balinese	ban_Latn	256023
25	Belarusian	bel_Cyrl	256024
26	Bemba	bem_Latn	256025

中英互相翻译 - SDK

主要特性

- 可以进行英语和中文之间的翻译
- 支持 CPU / GPU

```
SearchConfig config = new SearchConfig();
config.setMaxSeqLength(128);
String modelPath = "models/opus-mt-zh-en/";
String input = "智利北部的丘基卡马塔矿是世界上最大的露天矿之一,长约4公里,宽3公里,深1公里。";
try (TranslationModel translationModel = new TranslationModel(config, modelPath, poolSize: 4, Device.cpu());
   System.setProperty("ai.djl.pytorch.graph_optimizer", "false");
   long start = System.currentTimeMillis();
   String result = translationModel.translate(input);
   long end = System.currentTimeMillis();
   logger.info("Time: {}", (end - start));
   logger.info("{}", result);
```

输出翻译结果:

[INFO] - The Chuquicamata mine in northern Chile is one of the world's largest, about 4 km long, 3 km wide and 1 km deep.

hello!

