

1. 语音方向的相关框架

名称	功能	网址
WER变化	语音识别最新成果(WER降低)	https://github.com/syhw/wer_are_we
ESPnet	E2E Speech Processing Toolkit	https://github.com/espnet/espnet
Pytorch-Kaldi	ASR Toolkit	https://github.com/mravanelli/pytorch-kaldi
PyKaldi	Python Wrapper for Kaldi	https://github.com/pykaldi/pykaldi
ASRT	中文语音识别系统	https://github.com/nl8590687/ASRT_SpeechRecognition
ASR	中英文语音识别系统	https://github.com/zzw922cn/Automatic_Speech_Recognition
Deep Speech	百度语音识别Deep Speech C++	https://github.com/mozilla/DeepSpeech
Deep Speech 2	Pytorch 实现	https://github.com/SeanNaren/deepspeech.pytorch
Tacotron	语音合成 Tensorflow	https://github.com/keithito/tacotron
Speech datasets	多语种语音数据集CMU	https://github.com/festvox/datasets-CMU_Wilderness
Kaldi-CTC	基于CTC的语音识别系统	https://github.com/lingochamp/kaldi-ctc
Alignment	长音频对齐工具	https://github.com/srinivr/kaldi-long-audio-alignment
SoundNet	Learning sound representations	https://github.com/cvondrick/soundnet
SER	语音情感识别练习	https://github.com/YJango/speech-emotion-recognition-exercise
E2E ASR	端到端语音识别 (tensorflow)	https://github.com/hirofumi0810/tensorflow_end2end_speech_recognition
E2E LVCSR	基于Attention的端到端LVCSR	https://github.com/rizar/attention-lvcsr
ASR Processing	Pre-processing for e2e ASR	https://github.com/hirofumi0810/asr_preprocessing
DEEP-FSMN	DFSMN for Kaldi ASR	https://github.com/tramphero/kaldi
DFSMN	Alibaba-MIT-Speech	https://github.com/alibaba/Alibaba-MIT-Speech
STT Benchmark	语音识别系统	https://github.com/Picovoice/stt-benchmark
Audio Analysis	Python音频分析库	https://github.com/tyiannak/pyAudioAnalysis
SR Library	Python语音识别库	https://github.com/Uberi/speech_recognition
Speech features	Python语音特征库	https://github.com/jameslyons/python_speech_features
DeepSpeaker	说话人识别(Pytorch)	https://github.com/qqueing/DeepSpeaker-pytorch
3D-CNN	说话人识别	https://github.com/astorfi/3D-convolutional-speaker-recognition
Kaldi声学模型	Tensorflow Kaldi	https://github.com/vrenkens/tfkaldi
语音方向论文阅读	语音识别与合成论文	https://github.com/zzw922cn/awesome-speech-recognition-speech-synthesis-papers
SLP	SLP全面资料	https://github.com/edobashira/speech-language-processing
Kaldi decoder	解码器	https://github.com/jpuigcerver/kaldi-decoders https://github.com/chenzhehuai/kaldi-decoders

2. 优质高校课程

名称	学校	网址
CS 230	Stanford	https://github.com/afshinea/stanford-cs-230-deep-learning https://github.com/cs230-stanford/cs230-code-examples
Tensorflow	Stanford	https://github.com/chiphuyen/stanford-tensorflow-tutorials
Tensorflow	Youtube	https://github.com/Hvass-Labs/TensorFlow-Tutorials

STAT 157	Berkeley	https://github.com/d2l-ai/d2l-en https://github.com/d2l-ai/d2l-zh
DL课程	MIT	https://github.com/lexfridman/mit-deep-learning
NLP课程	YSDA	https://github.com/yandexdataschool/nlp_course
NLP	Georgia	https://github.com/jacobeisenstein/gt-nlp-class
6.S191 (DL)	MIT	https://github.com/aamini/introtodeeplearning_labs
NLP 2017	Oxford	https://github.com/oxford-cs-deepnlp-2017/lectures
CS224n	stanford	https://github.com/DSKSD/DeepNLP-models-Pytorch

3. 书籍配套学习资料

名称	功能	网址
Algorithms	书籍源码	https://github.com/jeffgerickson/algorithms
Intro to Algorithms	书籍源码	https://github.com/gzc/CLRS
PRML Solution	参考答案(个人版)	https://github.com/GoldenCheese/PRML-Solution-Manual
ML yearning	中文版	https://github.com/AcceptedDoge/machine-learning-yearning-cn
Machine Learning学习	书籍源码	https://github.com/ageron/handson-ml https://github.com/apacheecn/hands-on-ml-zh https://github.com/hangtwenty/dive-into-machine-learning
机器学习实战	书籍源码	https://github.com/wzy6642/Machine-Learning-in-Action-Python3
数据科学入门	书籍源码	https://github.com/jakevdp/PythonDataScienceHandbook https://github.com/donnemartin/data-science-ipython-notebooks
Learn DL with Pytorch	书籍源码	https://github.com/L1aoXingyu/code-of-learn-deep-learning-with-pytorch
简单粗暴Tensorflow	书籍源码	https://github.com/snowkylin/TensorFlow-cn
Tensorflow internals	书籍源码	https://github.com/horance-liu/tensorflow-internals

4. 自然语言处理相关

名称	功能	网址
Nest LSTM	Nest LSTM Cell	https://github.com/hannw/nlstm
BERT	Pretrained models Tensorflow	https://github.com/google-research/bert
Pytext	NLP framework	https://github.com/facebookresearch/pytext
Text-sum	Text Summarization	https://github.com/icoxfog417/awesome-text-summarization
Machine Translation	机器翻译	https://github.com/THUNLP-MT/MT-Reading-List
THULAC	中文词法分析(清华)	https://github.com/thunlp/THULAC-Python
Jieba	结巴分词	https://github.com/fxsjy/jieba
PKUSeg	分词工具(北大)	https://github.com/lancopku/pkuseg-python
textClassifier	文本分类	https://github.com/richliao/textClassifier
Long Text Classification	长文本分类基线模型	https://github.com/brightmart/ai_law
Text classification	文本分类各类模型	https://github.com/brightmart/text_classification
NLP datasets	自然语言处理数据集	https://github.com/karthikncode/nlp-datasets https://github.com/niderhoff/nlp-datasets
NLP progress	自然语言处理最新技术进展	https://github.com/sebastianruder/NLP-progress
Allen NLP	NLP toolkit	https://github.com/allenai/allennlp
Seq2seq库	Pytorch的Sequence-to-sequence库	https://github.com/pytorch/fairseq
Chineses NLP	中文自然语言处理	https://github.com/crownpku/Awesome-Chinese-NLP

CS291K课程作业	情感分析 (CNN+LSTM)	https://github.com/pmsosa/CS291K
Awesome NLP	NLP综合资料	https://github.com/keon/awesome-nlp
Chinese Corpus	中文NLP语料库	https://github.com/brightmart/nlp_chinese_corpus
chinese Words	中文词嵌入示例	https://github.com/HoratioJSY/cn-words
NLP SOTA	NLP的最新前沿结果	http://nlpprogress.com/

5. 重要源码

名称	功能	网址
AI challenger 2018	情感分类任务第一名	https://github.com/chenghuige/wenzheng
Incremental Learning	增加学习	https://github.com/xialeiliu/Awesome-Incremental-Learning
Reinforment Learning	增强学习	https://github.com/wwxFromTju/awesome-reinforcement-learning-zh https://github.com/dennybritz/reinforcement-learning https://github.com/aikorea/awesome-rl
TL学习资料	迁移学习资料	https://github.com/artix41/awesome-transfer-learning https://github.com/jindongwang/transferlearning https://github.com/jindongwang/transferlearning-tutorial
GNN paper	图网络学习	https://github.com/thunlp/GNNPapers
Deep Learning论文阅读	论文阅读指南	https://github.com/floodsung/Deep-Learning-Papers-Reading-Roadmap
Kaggle竞赛指南	机器学习竞赛	https://github.com/apacheecn/kaggle
Kaggle Solutions	Kaggle比赛解决方案	https://github.com/EliotAndres/kaggle-past-solutions
Data Top Solution	数据竞赛答案开源	https://github.com/Smilexuhc/Data-Competition-TopSolution
Data Competition	数据竞赛集锦	https://github.com/iphysresearch/DataSciComp
各类最新论文梳理	论文阅读	https://github.com/papers-we-love/papers-we-love
机器学习资料	机器学习基础知识	https://github.com/eriklindernoren/ML-From-Scratch https://github.com/src-d/awesome-machine-learning-on-source-code
100天机器学习	机器学习实践	https://github.com/Avik-Jain/100-Days-Of-ML-Code
FastAI	Pytorch DL库	https://github.com/fastai/fastai
Awesome ML	机器学习综合资料	https://github.com/josephmisiti/awesome-machine-learning
ML SOTA	ML最前沿	https://github.com/RedditSota/state-of-the-art-result-for-machine-learning-problems

6. 求职相关

名称	内容	网址
深度学习500问	面试常见问题	https://github.com/scutan90/DeepLearning-500-questions
Blacklist	找工作黑名单	https://github.com/shengxinjing/programmer-job-blacklist
ML/DL/NLP算法岗	求职笔记	https://github.com/imhuay/Algorithm_Interview_Notes-Chinese
编程岗/软件工程师	面试技术基础学习	https://github.com/jwasham/coding-interview-university
Competitive Programming	编程比赛资料	https://github.com/Inishan/awesome-competitive-programming
计算机方向面试	笔试面试笔记	https://github.com/CyC2018/CS-Notes
计算机方向面试	笔试面试指南	https://github.com/HIT-Alibaba/interview
面试指南	笔试面试常见问题	https://github.com/mission-peace/interview/wiki
各公司科技	行业发展	https://github.com/FutureElements/FutureElements
人工智能Cheatsheet	面试常见问题	https://github.com/kailashahirwar/cheatsheets-ai
DL Projects	DL相关的全部项目	https://github.com/priya-dwivedi/Deep-Learning