

深度学习入门教程

【写在前面】

此文档建议具有一定的入门知识，但是无深度学习基础的同学学习~

● 深度学习视频教程

- 李宏毅深度学习(2017): (✓推荐)

<https://www.bilibili.com/video/av9770302?from=search&seid=456509998694502607>

- 李宏毅《机器学习》:

<https://www.bilibili.com/video/av59538266>

- 李飞飞 CS231n 课程:

<https://www.bilibili.com/video/av58778425?from=search&seid=2100807984043016951>

知乎智能专栏-课程笔记翻译: <https://zhuanlan.zhihu.com/p/22339097>

- 吴恩达 deeplearning.ai:

https://mooc.study.163.com/university/deeplearning_ai#/c

课件, 笔记: https://github.com/fengdu78/deeplearning_ai_books

作业: <https://github.com/stormstone/deeplearning.ai>

- Fast.ai《程序员深度学习实战》: (✓推荐)

<https://www.bilibili.com/video/av18904696?from=search&seid=1081383753659512013>

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英文笔记: https://medium.com/@hiromi_suenaga/deep-learning-2-part-1-lesson-1-602f73869197

中文笔记: <https://github.com/apacheecn/fastai-ml-dl-notes-zh/tree/master/zh>

● 深度学习相关书籍

- 《python 深度学习》

英文版: <https://github.com/fchollet/deep-learning-with-python-notebooks>

中文版: https://github.com/fengdu78/machine_learning_beginner/tree/master/deep-learning-with-python-notebooks

- 《深度学习》花书

<https://github.com/exacity/deeplearningbook-chinese>

- 《动手学深度学习》

<https://zh.d2l.ai/index.html>

TensorFlow

- TensorFlow 在线教程

- TensorFlow Examples: <https://github.com/aymericdamien/TensorFlow-Examples>

- TensorFlow1.x 官方教程:

<https://github.com/tensorflow/docs/tree/master/site/en/r1>

- TensorFlow-Tutorials-Chinese:

<https://github.com/Hvass-Labs/TensorFlow-Tutorials-Chinese>

- TensorFlow 视频教程

- Deep Learning basics with Python, TensorFlow and Keras

Youtube: <https://www.youtube.com/watch?v=wQ8BlBpya2k&feature=youtu.be>

- 斯坦福 TensorFlow 教程 (✓推荐)

<https://www.bilibili.com/video/av9156347/?from=search&seid=6905181275544516403>

课程代码: <https://github.com/chiphuyen/stanford-tensorflow-tutorials>

- Google 机器学习速成课程

科学上网: <https://developers.google.com/machine-learning/crash-course/ml-intro>

- TensorFlow 书籍资源

- Hands-on Machine Learning with Scikit-Learn, Keras, and TensorFlow, 2nd Edition

<https://github.com/ageron/handson-ml>

- TensorFlow Machine Learning Cookbook

https://github.com/nfmcclure/tensorflow_cookbook

- TensorFlow 实战项目

<https://github.com/tensorflow/models>

<https://github.com/CharlesShang/FastMaskRCNN>

<https://github.com/balancap/SSD-Tensorflow>

<https://github.com/carpedm20/DCGAN-tensorflow>

PyTorch

● PyTorch 学习教程、手册

- PyTorch 英文版官方手册: <https://pytorch.org/tutorials/>
- PyTorch 中文官方文档: <https://github.com/fendouai/PyTorchDocs>
- 比较偏算法实战的 PyTorch 代码教程: <https://github.com/yunjey/pytorch-tutorial>
- 开源书籍: <https://github.com/zergtant/pytorch-handbook>
- 简单易上手的 PyTorch 中文文档: <https://github.com/fendouai/pytorch1.0-cn>

● PyTorch 视频教程

- B 站 PyTorch 视频教程: <https://www.bilibili.com/video/av31914351/> (✓推荐)
- YouTube 视频教程: <https://www.youtube.com/watch?v=SKq-pmkekTk>

● PyTorch-CV 实战

- Pytorch vision: <https://github.com/pytorch/vision>
- OpenFacePytorch: <https://github.com/thnkim/OpenFacePytorch>
- TorchCV: <https://github.com/donnyyou/torchcv>
- Pytorch-cnn-finetue: <https://github.com/creafz/pytorch-cnn-finetune>
- StyleTransfer: <https://github.com/tymokvo/pt-styletransfer#pt-styletransfer>

● PyTorch 书籍

- 《深度学习入门之 PyTorch》
- 《Pytorch 深度学习》
- 《深度学习框架 PyTorch 入门与实践》
- 《PyTorch 机器学习从入门到实战》