

# 决战春招！算法工程师面试问题及资料超详细合集（多家公司算法岗面经/代码实战/网课/竞赛等）

极市平台 2020-02-29 22:00:00 手机阅读 罊

收录于合集

#CV面经

23个

加入极市专业CV交流群，与10000+来自腾讯，华为，百度，北大，清华，中科院等名企名校视觉开发者互动交流！

同时提供每月大咖直播分享、真实项目需求对接、干货资讯汇总，行业技术交流。关注 极市平台 公众号，回复 加群，立刻申请入群~

来源：AI算法修炼营

编辑：数据派THU

Github传送门：

<https://github.com/lcylmhlcy/Awesome-algorithm-interview>

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面试、资料、代码实战Pytorch、代码实战TensorFlow、网课

## 四、C/C++

## 五、Python

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## 七、简历模板

## 八、其他

## 一、算法工程师

### Github

- 算法/深度学习/NLP面试笔记 Github
  - [https://github.com/imhuay/Algorithm\\_Interview\\_Notes-Chinese](https://github.com/imhuay/Algorithm_Interview_Notes-Chinese)
- 算法工程师面试 Github
  - <https://github.com/PPshrimpGo/Alinterview>
- 2019届秋招面经集合 Github
  - <https://github.com/zslomo/2019-Autumn-recruitment-experience>
- 技术面试必备基础知识 Github
  - <https://github.com/CyC2018/CS-Notes>
- AI算法岗求职攻略 Github (amusi)
  - <https://github.com/amusi/AI-Job-Notes>
- 阿里、腾讯、百度、华为、京东、搜狗和滴滴最新面试题汇集 Github
  - <https://github.com/xiaole0310/interview->
- （面试算法练级攻略） - （LeetCode题解） - （剑指offer题解）」 Github
  - <https://github.com/guokaide/algorithm>
- MVision-awesome Github
  - <https://github.com/Ewenwan/MVision>
- 2020年的算法实习岗位信息表，部分包括内推码，和常见深度学习算法岗面试题及答案，暑期计算机视觉实习面经和总结 Github
  - [https://github.com/HarleysZhang/2019\\_algorithm\\_intern\\_information](https://github.com/HarleysZhang/2019_algorithm_intern_information)
- Daily Interview Github
  - <https://github.com/datawhalechina/Daily-interview>
- 2019年最新总结，阿里，腾讯，百度，美团，头条等技术面试题目，以及答案，专家出题人分析汇总 Github
  - [https://github.com/0voice/interview\\_internal\\_reference](https://github.com/0voice/interview_internal_reference)

### 牛客网

- 旷视19届春招-算法研究员-凉经 nowcoder
  - <https://www.nowcoder.com/discuss/167336>
- 腾讯算法实习面试总结 nowcoder
  - <https://www.nowcoder.com/discuss/163996>
- 春招详细算法面经(旷视/海康/联影等8家公司Offer) nowcoder
  - <https://www.nowcoder.com/discuss/163388>
- 普通的算法/机器学习面经 nowcoder

- <https://www.nowcoder.com/discuss/61907>
- 20届-视觉算法-暑期实习 nowcoder
  - <https://www.nowcoder.com/discuss/173292>
- 字节跳动实习算法岗面经 nowcoder
  - <https://www.nowcoder.com/discuss/174565>
- 阿里腾讯虎牙机器学习算法面经 nowcoder
  - <https://www.nowcoder.com/discuss/175759>
- 字节跳动图形图像算法实习面经 nowcoder
  - <https://www.nowcoder.com/discuss/178153>
- 拼多多算法实习生面经 nowcoder
  - <https://www.nowcoder.com/discuss/177911>
- 算法岗面经传送门 nowcoder
  - <https://www.nowcoder.com/discuss/180976>
- 面经（腾讯AI Lab，阿里达摩院，华为等公司大集合） nowcoder
  - <https://www.nowcoder.com/discuss/180087>
- cv岗面经 nowcoder
  - <https://www.nowcoder.com/discuss/159266>
- 小菜鸡的算法实习面经 nowcoder
  - <https://www.nowcoder.com/discuss/181770>
- 机器学习/算法校招面试考点汇总 nowcoder
  - <https://www.nowcoder.com/discuss/165930>
- 计算机视觉暑期实习面经 nowcoder
  - <https://www.nowcoder.com/discuss/186000>
- 算法岗面经（阿里云,1,2,3，交叉，hr面） nowcoder
  - <https://www.nowcoder.com/discuss/172079>
- 春招实习面经（cv算法岗） nowcoder
  - <https://www.nowcoder.com/discuss/183555>
- 双非本硕算法陪跑面经 nowcoder
  - <https://www.nowcoder.com/discuss/186247>
- 2018春招科大讯飞，华为，神策数据，今日头条面经 nowcoder
  - <https://www.nowcoder.com/discuss/75136?type=2&order=3&pos=254&page=1>
- 2020届渣硕春招实习-算法岗（计算机视觉） nowcoder
  - <https://www.nowcoder.com/discuss/186113>
- 爱奇艺深度学习算法实习生面经 nowcoder
  - <https://www.nowcoder.com/discuss/185614>
- 阿里，旷视，亚马逊，谷歌面经 nowcoder
  - <https://www.nowcoder.com/discuss/172693>
- 算法菜鸟的春招之路 nowcoder

- <https://www.nowcoder.com/discuss/188295>
- 机器学习算法面经（腾讯阿里网易） nowcoder
  - <https://www.nowcoder.com/discuss/75166?type=2&order=3&pos=250&page=1>
- 实习算法岗血泪面经，商汤，旷世，阿里，字节跳动 nowcoder
  - <https://www.nowcoder.com/discuss/192689?type=2>
- 机器学习/数据挖掘岗2019秋招总结 nowcoder
  - <https://www.nowcoder.com/discuss/138721>
- 算法面经（阿里、腾讯、美团等） nowcoder
  - <https://www.nowcoder.com/discuss/77924?type=2&order=3&pos=195&page=1>
- 春招秋招算法机器学习岗面经（阿里、腾讯、美团、携程） nowcoder
  - <https://www.nowcoder.com/discuss/106725>
- 春招（附面经） nowcoder
  - <https://www.nowcoder.com/discuss/79729>
- 计算机视觉算法岗面经 nowcoder
  - <https://www.nowcoder.com/discuss/128148>
- 机器学习算法面经---2018秋招 nowcoder
  - <https://www.nowcoder.com/discuss/32008>
- 阿里&腾讯春招算法面经 nowcoder
  - <https://www.nowcoder.com/discuss/198290?type=2&order=3&pos=7&page=1>
- 阿里暑期实习六面面经 nowcoder
  - <https://www.nowcoder.com/discuss/180007>
- 计算机视觉算法岗面经 nowcoder
  - <https://www.nowcoder.com/discuss/128148>
- 阿里 达摩院 cv 算法 面经 nowcoder
  - <https://www.nowcoder.com/discuss/216797>
- 算法工程师面经 寒拼磨腾作网网3 附答案 nowcoder
  - <https://www.nowcoder.com/discuss/231656>
- 搜狗算法面经 nowcoder
  - <https://www.nowcoder.com/discuss/231973>
- 商汤20校招CV算法研究员面经(三面+HR面) nowcoder
  - <https://www.nowcoder.com/discuss/209857>
- 作业帮/寒武纪/商汤/科大讯飞面经 nowcoder
  - <https://www.nowcoder.com/discuss/218906>
- 面经 | 腾讯/百度/字节跳动/拼多多/华为/美团/寒武纪/虎牙等 nowcoder
  - <https://www.nowcoder.com/discuss/241988>
- 算法秋招上岸了，大家加油，我先撤了（附所有面经） nowcoder
  - <https://www.nowcoder.com/discuss/244979>

## 知乎

- 算法工程师必须要知道的面试技能雷达图 zhihu
  - <https://zhuanlan.zhihu.com/p/54089811>
- 做计算机视觉的你，如何拿到大厂的Offer的？可否分享下？ zhihu
  - <https://www.zhihu.com/question/272045026/answer/366665187>
- 字节跳动计算机视觉算法实习生视频面试 zhihu
  - <https://zhuanlan.zhihu.com/p/59270912>
- 2019秋招算法面经 zhihu
  - <https://zhuanlan.zhihu.com/p/42936891>
- CVTE视觉计算岗实习面经 zhihu
  - <https://zhuanlan.zhihu.com/p/59223324>
- 互联网公司最常见的面试算法题有哪些？ zhihu
  - <https://www.zhihu.com/question/24964987/answer/586425979>
- 计算机视觉（cv）方向今年招聘情况怎么样?是否已经人才过剩? zhihu
  - <https://www.zhihu.com/question/293700785>

## 个人博客

- AI算法工程师手册 Blog
  - <http://www.huaxiaozhuan.com/>
- 小米面试总结 Blog
  - <https://wx.qqmlgb.tech/articles/5c55c999ce56ab804b1526cd/>
- 百度/商汤AI面试 CSDN
  - <https://blog.csdn.net/emma1222/article/details/86551435>
- 算法校招经验总结(百度,阿里巴巴,腾讯,今日头条) CSDN
  - [https://blog.csdn.net/ML\\_SDD/article/details/84986528](https://blog.csdn.net/ML_SDD/article/details/84986528)
- CV计算机论文速览 CSDN
  - <https://me.csdn.net/u014636245>

## 微信公众号

- 阿里巴巴计算机视觉算法实习生视频面试 website
  - <https://bit.ly/2n6xJNw>
- 面试经验AI算法工程师(面试官角度) website
  - <https://bit.ly/2nLRaLX>
- 从零基础到BAT算法岗SP——秋招准备攻略 website
  - <https://bit.ly/2luBZpw>

- 蚂蚁金服/旷视/虹软/腾讯优图暑期实习offer面经 website
  - <https://bit.ly/2nGEeXy>
- 我在美团的这两年（附校招笔试/面试/面经分享） website
  - <https://bit.ly/2lyxQ3Y>
- 1000 面试题，BAT 机器学习面试刷题宝典！ website
  - <https://bit.ly/2nKXnHZ>
- 如何拿到自己满意的offer? website
  - <https://bit.ly/2nGFnOQ>
- 机器学习与深度学习常见面试题（上） website
  - <https://bit.ly/2nDAG8q>
- 机器学习与深度学习常见面试题（下） website
  - <https://bit.ly/2mfFLU5>
- 完备的 AI 学习路线，最详细的资源整合！ website
  - <https://bit.ly/2nE3m15>
- 蚂蚁金服面经（已拿 Offer） website
  - <https://bit.ly/2m4Fzaq>
- 30家企业海投，10余家offer，我的漫漫秋招之旅 website
  - <https://bit.ly/2lyjwsb>
- BAT 三连挂是什么体验？硕士小姐姐讲述心酸血泪史！ website
  - <https://bit.ly/2nJmWcl>
- 数据科学&机器学习基础面试题 website
  - <https://bit.ly/2lBuRYH>
- 计算机视觉、算法岗实习面经（阿里/格灵深瞳/南京地平线机器人） website
  - <https://bit.ly/2nMscvZ>
- 面经 | 挂两次腾讯面试的春招教训 website
  - <https://bit.ly/2n6MzDG>
- Face++公司 - 两轮技术面试面经 website
  - <https://bit.ly/2mdCHb9>
- 秋招面经 | 旷视科技算法岗秋招面试经验分享 website
  - <https://bit.ly/2lCy8qE>
- 面经+经验分享|2019秋招算法岗复盘 website
  - <https://bit.ly/2mfZi6P>
- 专科生阿里大数据一面面经(已过) website
  - <https://bit.ly/2lDzbqm>
- 2019秋招算法岗复盘 website
  - <https://bit.ly/2nGprMt>
- 我面试了10家算法公司，这是我能记住的所有问题 website
  - <https://bit.ly/2lyC2AJ>

- 计算机视觉算法工程师（旷视、商汤、智云、海康）面试总结 website
  - <https://bit.ly/2nbjZAW>
- 秋招面经 | 滴滴20校招CV算法岗面试经验分享(三面) website
  - <https://bit.ly/2ncyt3u>
- 八家国企大数据面经(干货, 详细答案) website
  - <https://bit.ly/2ndSxT9>

## 其他

- 廖雪峰AI面试资料 BaiduYun ps:uzj9
  - <https://pan.baidu.com/s/10NL2yJxsBFjq8PP-wdBfuw>
  - ps:uzj9
- Solutions to Introduction to Algorithms Github
  - <https://github.com/gzc/CLRS>
- CV 领域论文常见单词 zhihu
  - <https://zhuanlan.zhihu.com/p/60049093>
- CV领域Paper论文常见单词 zhihu
  - <https://zhuanlan.zhihu.com/p/58860096>
- Everything you need to know to get the job Github
  - <https://github.com/kdn251/interviews>
- Everything you need to prepare for your technical interview Github
  - <https://github.com/andreis/interview>
- Materials to help you rock your next coding interview Github
  - <https://github.com/yangshun/tech-interview-handbook>

## 二、机器学习

### 面试问题

- 机器学习面试算法梳理 Blog
  - <https://www.cnblogs.com/tornadomeet/p/3395593.html>
- 面试官如何判断面试者的机器学习水平 zhihu
  - <https://www.zhihu.com/question/62482926>
- machine-learning-interview-questions Github
  - <https://github.com/Sroy20/machine-learning-interview-questions>
- 机器学习与深度学习面试问题总结 Blog

- <https://bit.ly/2mgUSfY>
- 机器学习面试复习资源 Github
  - [https://github.com/wangyuGithub01/Machine\\_Learning\\_Resources](https://github.com/wangyuGithub01/Machine_Learning_Resources)

## 学习资料

- Your new Mentor for Data Science E-Learning Github
  - <https://github.com/clone95/Virgilio>
- 王斌老师翻译的<机器学习实战>书python代码实现 Github
  - <https://github.com/wzy6642/Machine-Learning-in-Action-Python3>
- PRML(python) Github
  - <https://github.com/ctgk/PRML>
- 李航博士<统计学习方法>一书中所有算法python实现 Github
  - [https://github.com/WenDesi/lihang\\_book\\_algorithm](https://github.com/WenDesi/lihang_book_algorithm)
- <统计学习方法>第二版的代码实现 Github
  - <https://github.com/fengdu78/lihang-code>
- <机器学习>(西瓜书)公式推导解析 Github
  - <https://github.com/datawhalechina/pumpkin-book>
- <数据科学实战>书代码 Github
  - [https://github.com/oreilymedia/doing\\_data\\_science](https://github.com/oreilymedia/doing_data_science)
- 机器学习实战(Python3) Github
  - <https://github.com/Jack-Cherish/Machine-Learning>
- 吴恩达讲授的机器学习 Coursera 163
  - <https://www.coursera.org/learn/machine-learning>
- Solutions to Introduction to Algorithms Third Edition Github
  - <https://github.com/walkccc/CLRS>
- Data-Science--Cheat-Sheet Github
  - <https://github.com/abhat222/Data-Science--Cheat-Sheet>
- Data Science Crash Course Github
  - <https://maria-antoniak.github.io/2018/11/19/data-science-crash-course.html>
- List of Data Science Cheatsheets to rule the world Github
  - <https://github.com/FavioVazquez/ds-cheatsheets>
- Your new Mentor for Data Science E-Learning. Github
  - <https://github.com/virgili0/Virgilio>
- Python3 入门机器学习 Github
  - <https://github.com/liuyubobobo/Play-with-Machine-Learning-Algorithms>
- DrWhy is the collection of tools for Explainable AI (XAI) Github
  - <https://github.com/ModelOriented/DrWhy>



- Fit interpretable models. Explain blackbox machine learning. Github
  - <https://github.com/jwasham/coding-interview-university>
- 李宏毅《机器学习》笔记 Github
  - <https://github.com/datawhalechina/leeml-notes>
- 机器学习 (Machine Learning) 深度学习 (Deep Learning) NLP面试中常考到的知识点和代码实现 Github
  - <https://github.com/NLP-LOVE/ML-NLP>

## 代码实战

- 机器学习算法python实现 Github
  - [https://github.com/lawlite19/MachineLearning\\_Python](https://github.com/lawlite19/MachineLearning_Python)
- 100-Days-Of-ML-Code中文版 Github
  - <https://github.com/MLEveryday/100-Days-Of-ML-Code>
- Homemade Machine Learning Github
  - <https://github.com/trekhleb/homemade-machine-learning>
- Python codes for common Machine Learning Algorithms Github
  - <https://github.com/susanli2016/Machine-Learning-with-Python>
- Machine-Learning-Study-Path-March-2019 Github
  - <https://github.com/clone95/Machine-Learning-Study-Path-March-2019>
- The best resources in Machine Learning & AI Github Website
  - <https://github.com/RemoteML/bestofml>
  - <https://bestofml.com/>
- AiLearning- ML、深度学习 Github
  - <https://github.com/apacheecn/AiLearning>
- A Machine Learning Course with Python Github
  - <https://github.com/machinelearningmindset/machine-learning-course>
- Machine learning, in numpy Github
  - <https://github.com/ddbourgin/numpy-ml>
- A complete computer science study plan to become a software engineer. Github
  - <https://github.com/ddbourgin/numpy-ml>

## 三、深度学习

## 面试

- 深度学习面试问题 Github
  - [https://github.com/elviswf/DeepLearningBookQA\\_cn](https://github.com/elviswf/DeepLearningBookQA_cn)

- 2020年的算法实习岗位信息表，部分包括内推码，和常见深度学习算法岗面试题及答案 Github
  - [https://github.com/HarleysZhang/2019\\_algorithm\\_intern\\_information](https://github.com/HarleysZhang/2019_algorithm_intern_information)
- Deep Learning Interview 深度学习面试题目汇总 Github
  - <https://github.com/ShanghaiTechAIClub/DLInterview>
- 深度学习面试要点总结(面试题) zhihu
  - <https://zhuanlan.zhihu.com/p/62935978>
- 自己整理的一点和深度学习相关的面试考点
  - <https://zhuanlan.zhihu.com/p/48374690>

## 资料

- 深度神经网络实战技巧 Blog
  - <https://bit.ly/2nJvQXj>
- 深度学习从入门到进阶的12个经典问题及解答 Blog
  - <https://bit.ly/2IBD0ML>
- 计算机视觉知识点总结 zhihu
  - <https://zhuanlan.zhihu.com/p/58776542>
- 图解人工智能 Github
  - <https://okai.brown.edu/zh/index.html>
- awesome-deep-learning Github
  - <https://github.com/ChristosChristofidis/awesome-deep-learning>
- 深度学习500问 Github
  - <https://github.com/scutan90/DeepLearning-500-questions>
- 复旦大学邱锡鹏教授发布<神经网络与深度学习>
  - Github书
    - <https://github.com/nndl/nndl.github.io>
  - Github示例代码
    - <https://github.com/nndl/nndl-codes>
  - Github课程练习
    - <https://github.com/nndl/exercise>
- 伯克利课程 <动手学深度学习>
  - Github <https://github.com/d2l-ai/d2l-zh>
  - 课程主页 <http://courses.d2l.ai/berkeley-stat-157/>
  - bilibili <https://space.bilibili.com/209599371/channel/detail?cid=23541>
  - 课件和习题 <https://github.com/d2l-ai/berkeley-stat-157>
  - 英文版 <http://d2l.ai/>
  - 中文版 <http://zh.d2l.ai/>
  - PyTorch 版 <https://github.com/dsgittr/d2l-pytorch>

- <深度学习理论与实战：提高篇> Github
  - <http://fancyerii.github.io/2019/03/14/dl-book/>
- Awesome\_Computer\_Vision Github
  - [https://github.com/ahong007007/Awesome\\_Computer\\_Vision](https://github.com/ahong007007/Awesome_Computer_Vision)
- Deep-Learning-Papers-Reading-Roadmap Github
  - <https://github.com/floodsung/Deep-Learning-Papers-Reading-Roadmap>
- 神经网络讲解视频
  - YouTube [https://youtu.be/aircAruvnKk?list=PLZHQObOWTQDNU6R1\\_67000Dx\\_ZCJB-3pi](https://youtu.be/aircAruvnKk?list=PLZHQObOWTQDNU6R1_67000Dx_ZCJB-3pi)
  - bilibili <http://space.bilibili.com/88461692/#/>
- 神经网络和深度学习的在线书籍
  - website <http://neuralnetworksanddeeplearning.com/>
  - chinese <https://tigerneil.gitbooks.io/neural-networks-and-deep-learning-zh/content/>
- 花书 Deep Learning 中文版 Github
  - <https://github.com/exacity/deeplearningbook-chinese>
- Open AI Blog website
  - <https://blog.openai.com/>
- Distill Blog website
  - <https://distill.pub/>
- BAIR 博客 website
  - <http://bair.berkeley.edu/blog/>
- DeepMind 博客 website
  - <https://deepmind.com/blog/?category=research>
- Andrej Karpathy的博客 website
  - <http://karpathy.github.io/>
- Christopher Olah的博客 website
  - <http://colah.github.io/>
- WildML Blog website
  - <http://www.wildml.com/>
- Ruder的博客 website
  - <http://ruder.io/>
- FAIR博客 website
  - <https://research.fb.com/blog/>
- inFERENCe Blog website
  - <http://www.inference.vc/>
- Andrew Trask的博客 website
  - <http://iamtrask.github.io/>
- Graduate Descent Blog website

- <http://timvieira.github.io/blog/>
- Adit Deshpande的博客 website
  - <https://adeshpande3.github.io/>
- ML/DL学习笔记（基础+论文） Github
  - <https://github.com/lartpang/Machine-Deep-Learning>
- 深度神经网络中的一些模型 进行统一的图示 Github
  - <https://github.com/weslynn/AlphaTree-graphic-deep-neural-network>
- five-days deep learning
  - website [https://mlelarge.github.io/dataflowr-web/cea\\_edf\\_inria.html](https://mlelarge.github.io/dataflowr-web/cea_edf_inria.html)
  - Github <https://github.com/mlelarge/dataflowr>
- Learn\_Computer\_Vision Github
  - [https://github.com/IIISourcell/Learn\\_Computer\\_Vision](https://github.com/IIISourcell/Learn_Computer_Vision)
- Explaining the Math of how neural networks learn Github
  - [https://github.com/omar-florez/scratch\\_mlp](https://github.com/omar-florez/scratch_mlp)
- (微软) AI-神经网络基本原理简明教程 Github
  - <https://github.com/microsoft/ai-edu/tree/master/>
- 深度学习手册 BaiduYun pw:dy6h
  - <https://pan.baidu.com/s/1ew3aVZizVkpVKUFx2AtDjw>
  - pw:dy6h
- An educational resource to help anyone learn deep reinforcement learning Github
  - <https://github.com/openai/spinningup>
- Technical Notes On Using Data Science & Artificial Intelligence website
  - <https://chrisalbon.com/>

## 代码实战Pytorch

- pytorch
  - Github <https://github.com/pytorch/pytorch>
  - Website <https://pytorch.org/>
- Official pytorch examples Github
  - <https://github.com/pytorch/examples>
- Official pytorch tutorials Github
  - <https://github.com/pytorch/tutorials>
- stanford-cs-230-deep-learning Github
  - <https://github.com/afshinea/stanford-cs-230-deep-learning>
- practicalAI Github
  - <https://github.com/GokuMohandas/practicalAI>
- PyTorch中文手册 Github

- <https://github.com/zergtant/pytorch-handbook>
- <深度学习框架PyTorch：入门与实践>的对应代码 Github
  - <https://github.com/chenyuntc/pytorch-book>
- code-of-learn-deep-learning-with-pytorch Github
  - <https://github.com/L1aoXingyu/code-of-learn-deep-learning-with-pytorch>
- Awesome-pytorch-list Github
  - <https://github.com/bharathgs/Awesome-pytorch-list>
- <Pytorch模型训练实用教程>中配套代码 Github
  - [https://github.com/tensor-yu/PyTorch\\_Tutorial](https://github.com/tensor-yu/PyTorch_Tutorial)
- An unofficial styleguide and best practices summary for PyTorch Github
  - <https://github.com/IgorSusmelj/pytorch-styleguide>
- fast.ai Computational Linear Algebra course Github
  - <https://github.com/fastai/numerical-linear-algebra>
- Awesome-PyTorch-Chinese Github
  - <https://github.com/INTERMT/Awesome-PyTorch-Chinese>
- Build-an-AI-Startup-with-PyTorch Github
  - <https://github.com/IISource/Build-an-AI-Startup-with-PyTorch>

## 代码实战TensorFlow

- TensorFlow-From-Zero-To-One Github
  - <https://github.com/amusi/TensorFlow-From-Zero-To-One>
- tensorflow2中文教程 Github
  - [https://github.com/czy36mengfei/tensorflow2\\_tutorials\\_chinese](https://github.com/czy36mengfei/tensorflow2_tutorials_chinese)
- Tensorflow2教程 Github
  - [https://zhuanlan.zhihu.com/c\\_1091021863043624960](https://zhuanlan.zhihu.com/c_1091021863043624960)
- Machine Learning and Deep Learning in Python using Scikit-Learn, Keras and TensorFlow 2 Github
  - <https://github.com/ageron/handson-ml2>
- TensorFlow 中文资源全集 Gitee
  - <https://gitee.com/fendouai/Awesome-TensorFlow-Chinese>
- Notebooks for my Deep Learning with TensorFlow 2 and Keras course Github
  - [https://github.com/ageron/tf2\\_course](https://github.com/ageron/tf2_course)

## 网课

- 斯坦福CS231n李飞飞计算机视觉 网易云课堂
  - <https://study.163.com/course/courseMain.htm?courseId=1003223001>
- 统计机器学习 网易云课堂

- <https://study.163.com/course/courseMain.htm?courseId=1692004>
- 机器学习导论 网易云课堂
  - <https://study.163.com/course/courseMain.htm?courseId=1694003>
- 吴恩达 深度学习工程师 网易云课堂
  - <https://mooc.study.163.com/smartSpec/detail/1001319001.htm>
- 计算机视觉基础入门课程（从算法到实战应用） AI研习社
  - <http://www.mooc.ai/course/353>
- 卡耐基梅隆大学 2018 秋季《深度学习导论》 AI研习社
  - <http://www.mooc.ai/course/562>
- CS224n 斯坦福深度自然语言处理课 AI研习社
  - <http://www.mooc.ai/course/494>
- 2018 MIT 6.S094 麻省理工深度学习和自动驾驶课程 AI研习社
  - <http://www.mooc.ai/course/483>
- Deep Learning: Advanced Computer Vision udemy
  - <https://www.udemy.com/advanced-computer-vision/>
- Computer Vision Certification by State University of New York coursera
  - <https://www.coursera.org/specializations/computervision>
- Convolutional Neural Networks coursera
  - <https://www.coursera.org/learn/convolutional-neural-networks>
- Deep Learning and Computer Vision A-Z: OpenCV, SSD & GANs udemy
  - <https://www.udemy.com/course/computer-vision-a-z/>
- 吴恩达的深度学习专项系列课程(Deep Learning Specialization)
  - Coursera <https://www.coursera.org/specializations/deep-learning>
  - 163 <https://mooc.study.163.com/smartSpec/detail/1001319001.htm/>
- CS231n
  - <http://cs231n.stanford.edu/>
- CS224n
  - <http://web.stanford.edu/class/cs224n/>
- 斯坦福公开课程：概率和统计Probability and Statistics website
  - <https://online.stanford.edu/courses/gse-yprobbat-probability-and-statistics>
- MIT公开课线性代数Linear Algebra website
  - <https://ocw.mit.edu/courses/mathematics/18-06-linear-algebra-spring-2010/>
- Fastai推出的2019年面向程序员的深度学习实战课程Practical Deep Learning for Coders, v3 website website
  - <https://course.fast.ai/>
  - <https://www.bilibili.com/video/av41718196/>
- 斯坦福机器学习课程Machine Learning(Coursera) coursera
  - <https://www.coursera.org/learn/machine-learning>

- 斯坦福概率图模型专项课程 Probabilistic Graphical Models Specialization(Coursera) coursera
  - <https://www.coursera.org/specializations/probabilistic-graphical-models>
- DeepMind强化学习导论课程 Introduction to Reinforcement Learning
  - bilibili <https://www.bilibili.com/video/av24060851/>
  - youtube <https://www.youtube.com/playlist?list=PLqYmG7hTraZDM-OYHWgPebj2MfCFzFObQ>
- 全栈深度学习训练营(课程视频)：为熟悉深度学习基础知识的开发人员提供的实践指导课程 Full Stack Deep Learning Bootcamp
  - Github <https://github.com/full-stack-deep-learning/fsdl-text-recognizer-project>
  - bilibili <https://www.bilibili.com/video/av49643298>
  - website <https://fullstackdeeplearning.com/march2019>
- 跟顶级Kagglers学习如何赢取数据科学竞赛 How to Win a Data Science Competition: Learn from Top Kagglers (Coursera) coursera
  - <https://www.coursera.org/learn/competitive-data-science>
- CS188伯克利<人工智能导论>课程 BerkeleyX: CS188.1x Artificial Intelligence
  - bilibili <https://www.bilibili.com/video/av39489278/>
  - website <https://inst.eecs.berkeley.edu/~cs188/fa18/>
- Fast.ai发布的课程：从零开始学深度学习 Deep Learning from the Foundations website
  - <https://www.fast.ai/2019/06/28/course-p2v3/>
- CS230斯坦福深度学习课程(2018 年秋) CS230: Deep Learning | Autumn 2018
  - bilibili <https://www.bilibili.com/video/av47055599/>
  - youtube [https://www.youtube.com/playlist?list=PLoROMvodv4rOABXSygHTsbvUz4G\\_YQhOb](https://www.youtube.com/playlist?list=PLoROMvodv4rOABXSygHTsbvUz4G_YQhOb)
- deeplearning.ai上线的TensorFlow实践课程 TensorFlow in Practice website
  - <https://www.deeplearning.ai/tensorflow-in-practice/>
- MIT的Python机器学习课程 Machine Learning with Python-From Linear Models to Deep Learning website
  - <https://www.edx.org/course/machine-learning-with-python-from-linear-models-to-deep-learning>
- 斯坦福CS224U自然语言理解课程 CS224U: Natural Language Understanding website
  - <http://web.stanford.edu/class/cs224u/index.html>
- 陈蕴依应用深度学习107 Spring - Applied Deep Learning, Taiwan University
  - bilibili <https://www.bilibili.com/video/av46656764/>
  - website <https://www.csie.ntu.edu.tw/~miulab/s107-adl/>
- 台大林轩田老师<机器学习基石>课程 bilibili
  - <https://www.bilibili.com/video/av12463015/>
- 台大林轩田老师课程<机器学习技法>课程 bilibili
  - <https://www.bilibili.com/video/av12469267/>
- NTU大学李宏毅最新机器学习课程(2019) website



- [http://speech.ee.ntu.edu.tw/~tlkagk/courses\\_ML19.html](http://speech.ee.ntu.edu.tw/~tlkagk/courses_ML19.html)

## 四、C/C++

- C/C++面试基础知识总结 Github
  - <https://github.com/huihut/interview>
- 常见C++笔试面试题整理 zhihu
  - <https://zhuanlan.zhihu.com/p/69999591>
- C/C++问题总结 Github
  - <https://github.com/linw7/Skill-Tree/blob/master/%E7%BC%96%E7%A8%8B%E8%AF%AD%E8%A8%80C++.md>
- Leetcode 题解代码仓(C++) Github
  - <https://github.com/liuyubobobo/Play-Leetcode>
- LeetCode, HackRank, 剑指offer, classic algorithm implementation (C++) Github
  - <https://github.com/knightsj/awesome-algorithm-question-solution>
- Data Structure and Algorithm notes数据结构与算法/leetcode/lintcode题解 Github
  - <https://github.com/billryan/algorithm-exercise>
- learnOpencv Github
  - <https://github.com/spmallick/learnopencv>
- Solutions to Introduction to Algorithms Third Edition
  - Github <https://github.com/walkccc/CLRS/>
  - Blog <https://walkccc.github.io/CLRS/>
- LeetCode动画 Github
  - <https://github.com/MisterBooo/LeetCodeAnimation>
- leetcode题解，记录自己的leetcode解题之路 Github
  - <https://github.com/azl397985856/leetcode>
- 剑指offer第二版 BaiduYun
  - <https://pan.baidu.com/s/1wU-8q3Mqvr3x6Et8t77Chg>
- <算法导论>的C++实现代码 Github
  - [https://github.com/huaxz1986/cplusplus-Implementation\\_Of\\_Introduction\\_to\\_Algorithms](https://github.com/huaxz1986/cplusplus-Implementation_Of_Introduction_to_Algorithms)
- 数据结构和算法必知必会的50个代码实现 Github
  - <https://github.com/wangzheng0822/algo>
- Play Leetcode with different Programming language Github
  - <https://github.com/luliyucoordinate/Leetcode>
- leetcode Github
  - <https://github.com/azl397985856/leetcode>
- algorithm-visualizer Github



- <https://github.com/algorithm-visualizer/algorithm-visualizer>
- 基于OpenCV4.0 C++/Python SDK的案例代码演示程序与效果图像 Github
  - [https://github.com/gloomyfish1998/opencv\\_tutorial](https://github.com/gloomyfish1998/opencv_tutorial)
- LeetCode solutions in C++ 11 and Python3 Github
  - <https://github.com/pezy/LeetCode>

## 五、Python

- 关于Python的面试题1 Github
  - [https://github.com/taizilongxu/interview\\_python](https://github.com/taizilongxu/interview_python)
- 关于Python的面试题2 Github
  - [https://github.com/kenwoodjw/python\\_interview\\_question](https://github.com/kenwoodjw/python_interview_question)
- LeetCode, HackRank, 剑指offer, classic algorithm implementation (Python) Github
  - <https://github.com/apacheecn/awesome-algorithm>
- 剑指offer（python版） / 算法图解 / python基础 / 数据结构 Github
  - <https://github.com/weixianglin/oh-my-python>
- 算法面试题python Github
  - <https://github.com/leeguandong/Interview-code-practice-python>
- All Algorithms implemented in Python Github
  - <https://github.com/TheAlgorithms/Python>
- Improve your Python by fixing errors Github
  - <https://github.com/qxf2/wtfiswronghere>
- wtfpython的中文翻译 Github
  - <https://github.com/leisurelicht/wtfpython-cn>
- python中文库-python人工智能大数据自动化接口测试开发。书籍下载及python库汇总 Github
  - <https://github.com/china-testing/python-api-tesing>
- Python面试都在这里了【315+道题】 Blog
  - <https://github.com/ethan-funny/explore-python>
- The Beauty of Python Programming Github
  - <https://github.com/jackfrued/Python-100-Days>
- Python - 100天从新手到大师 Github
  - <https://github.com/jackfrued/Python-100-Days>
- 在 Windows 上使用 Python 进行开发 Blog
  - <https://github.com/vinta/awesome-python>
- A curated list of awesome Python frameworks, libraries, software and resources Github
  - <https://github.com/vinta/awesome-python>

## 六、竞赛/比赛

- kaggle数据科学竞赛
  - <https://tianchi.aliyun.com/competition/gameList/activeList>
- 阿里云天池比赛
  - <https://challenger.ai/?lan=zh>
- AI Challenger
  - <https://challenger.ai/?lan=zh>
- 和鲸HeyWhale/科赛AI竞赛平台
  - <https://www.kesci.com/home/competition>
- FlyAI竞赛平台
  - <https://aistudio.baidu.com/aistudio/#/competition>
- BaiduAI竞赛
  - [http://www.dcjingsai.com/static\\_page/cmpList.html](http://www.dcjingsai.com/static_page/cmpList.html)
- DC竞赛
  - [http://www.dcjingsai.com/static\\_page/cmpList.html](http://www.dcjingsai.com/static_page/cmpList.html)
- DataFountain竞赛
  - <https://signate.jp/competitions>
- 日本SIGNATE竞赛
  - <https://signate.jp/competitions>
- Awesome-AI-competitions
  - [https://github.com/HuangCongQing/AI\\_competitions](https://github.com/HuangCongQing/AI_competitions)
- Driven Data
  - <https://www.drivendata.org/competitions/>
- CrowdANALYTIX
  - <https://www.innocentive.com/our-solvers/>
- InnoCentive
  - <https://www.innocentive.com/our-solvers/>
- TunedIT Challenges
  - <https://competitions.codalab.org/>
- CodaLab
  - [https://datahack.analyticsvidhya.com/?utm\\_source=main-logo](https://datahack.analyticsvidhya.com/?utm_source=main-logo)
- Analytics Vidhya
  - <https://www.crowdai.org/challenges>
- crowdAI
  - <https://www.datasciencechallenge.org/>
- Data Science Challenges

- <https://www.datasciencechallenge.org/>

## 七、简历模板

- Awesome Resume for Chinese Github
  - <https://github.com/amusi/Al-Job-Resume>
- AI算法岗简历模板 Github
  - <https://github.com/amusi/Al-Job-Resume>
- 个人简历模板 Github
  - <https://github.com/ikym/resume>

## 八、其他

- 博士生在没有导师指导的情况下，该如何自己选题发 CVPR zhihu
  - <https://www.zhihu.com/question/64566768>
- 专为程序员编写的英语学习指南 Github
  - <https://github.com/yujiangshui/A-Programmers-Guide-to-English>
- awesome-interview-questions Github
  - <https://github.com/MaximAbramchuck/awesome-interview-questions>
- Startups about artificial intelligence. (DM, ML, NLP, CV...) Github
  - <https://github.com/majikarp/awesome-programming-books#id-section2>
- Awesome Programming Books Github
  - <https://github.com/1c7/crash-course-computer-science-chinese>
- 计算机速成课(全40集) Github
  - <https://github.com/1c7/crash-course-computer-science-chinese>
- 清华大学计算机系课程攻略 Github
  - <https://github.com/PKUanonym/REKCARC-TSC-UHT>
- 北京大学课程资料整理 Github
  - <https://github.com/USTC-Resource/USTC-Course>
- 中国科学技术大学课程资源 Github
  - <https://github.com/USTC-Resource/USTC-Course>
- 上海交通大学课程资料分享 Github
  - <https://github.com/QSCTech/zju-icicles>
- 浙江大学课程攻略共享计划 Github
  - <https://github.com/24OI/OI-wiki>
- 编程竞赛 OI Wiki Github
  - <https://github.com/jwasham/coding-interview-university>

- A complete computer science study plan to become a software engineer. Github
  - <https://github.com/dipakkr/A-to-Z-Resources-for-Students>
- Curated list of resources for college students Github
  - <https://github.com/dipakkr/A-to-Z-Resources-for-Students>

-END-

### \*延伸阅读

- 2020 AI算法岗春招汇总 & 面经大全来了！点击接收你的招聘秘籍
- 极市内推 | 滴滴出行视觉计算组招收算法实习生
- 极市内推 | 北京大学信科院招聘 AI 方向博士后

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人工智能感知信息处理算法研究院



目标检测 | 丰富特征导向Refinement Network用于目标检测（附github源码）



