资源 | AI、神经网络、机器学习、深度学习以及大数据学习备忘单

原创 2017-09-27 大家都在关注 AI科技大本营

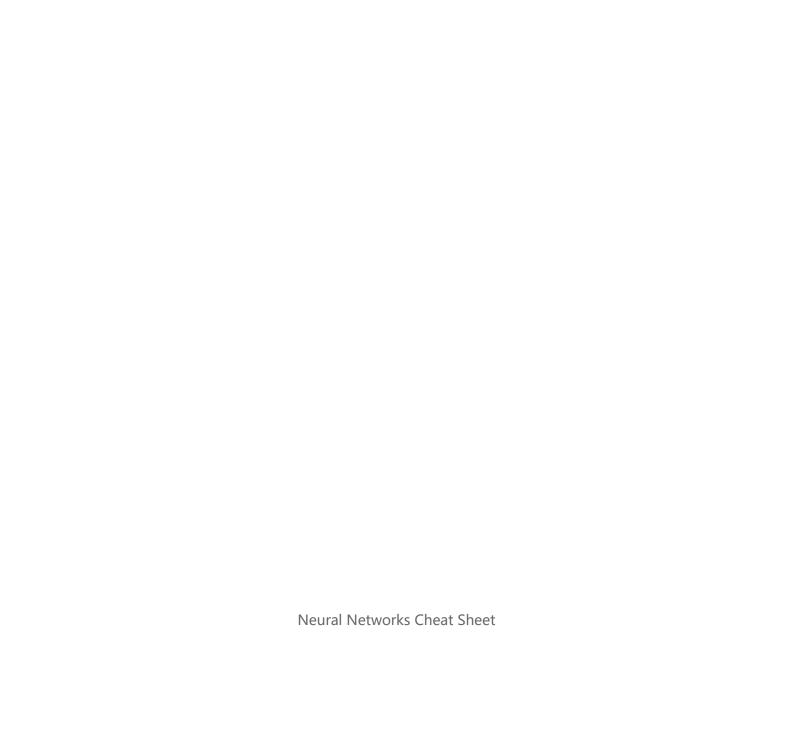
向AI转型的程序员都关注了这个号(



以下是关于神经网络、机器学习、深度学习以及大数据学习的备忘单,其中部分内容和此前发布的《资源 | 值得收藏的 27 个机器学习的小抄》有所重复,大家可以两篇综合起来看。

提示:点击图片查看大图

神经网络



神经网络图谱

Neural Networks Graphs Cheat Sheet

Neural Network Cheat Sheet

Machine Learning Cheat Sheet

机器学习:Scikit-learn算法

Machine Learning Cheat Sheet **Scikit-learn** 开源的,功能强大的基于Python的科学计算工具包,包含大量的分类、回归与聚类算法,支 持向量机、随机森林以及Gradient Boosting等。

Scikit-Learn Cheat Sheet

微软 Azure 算法流程帮你基于数据性质选择合适的算法

MACHINE LEARNING ALGORITHM CHEAT SHEET

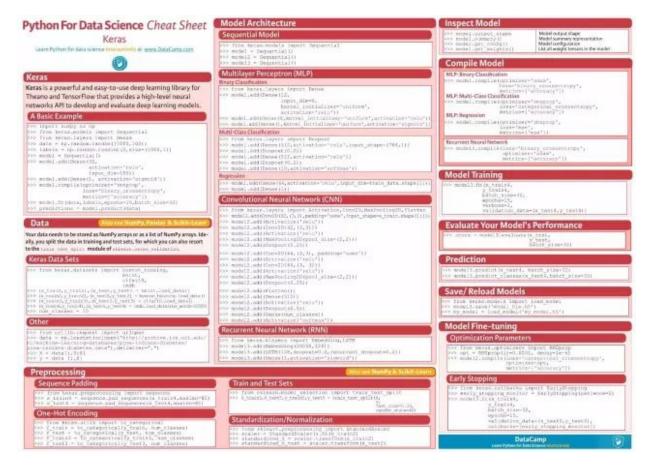
Python for Data Science

Python Data Science Cheat Sheet

TensorFlow

2017 年 5 月,谷歌宣布了第二代 TPU ,并在Google Compute Engine中加入了对 TPU 的支持。第二代 TPU 有高达 180 万亿次浮点运算性能。当 64 块TPU 组合使用时,可提供高达11.5 千万亿次浮点运算的性能。

2017 年,TensorFlow核心库加入了对 Keras 的支持。Keras作者Chollet表示Keras更适合作端口使用,而非端对端的机器学习框架,它提供了更高级更直观的抽象集合,可轻松配置神经网络,无需考虑后端科学计算库。



Keras Cheat Sheet

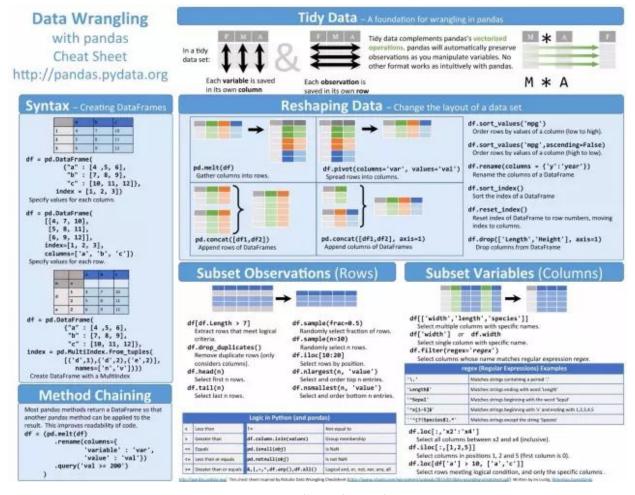
NumPy

NumPy系统是Python的一种开源的数值计算扩展。这种工具可用来存储和处理大型矩阵,比 Python自身的嵌套列表 (nested list structure)结构要高效的多。 Numpy Cheat Sheet

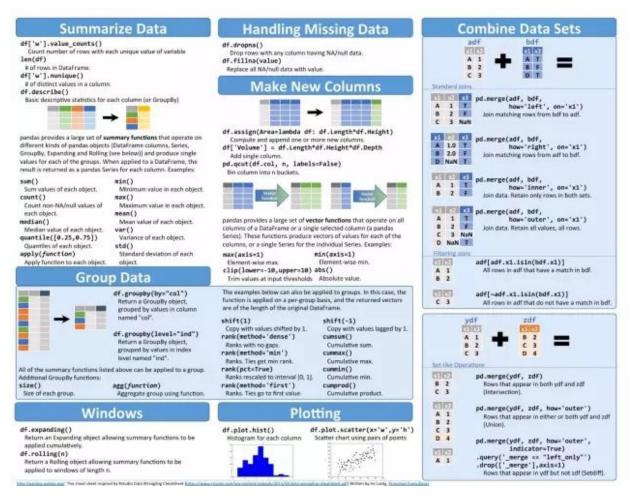
Pandas: Python中的结构化数据分析利器

Pandas Cheat Sheet

Data Wrangling

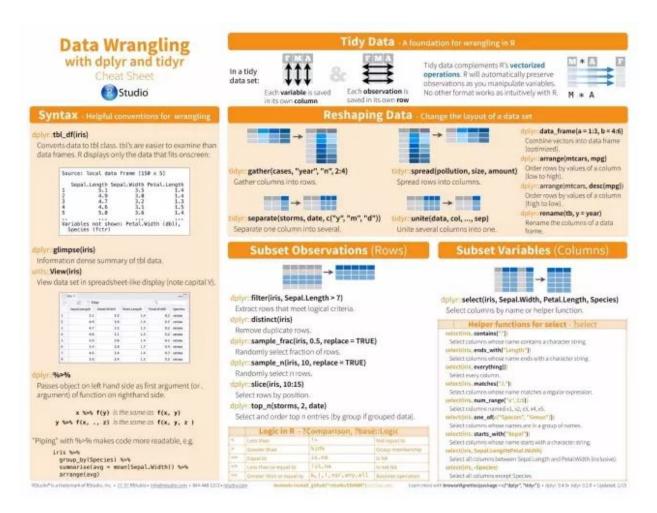


Data Wrangling Cheat Sheet

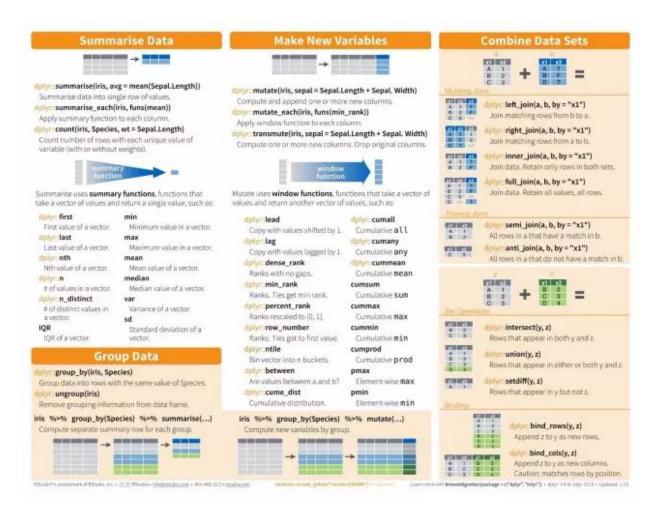


Pandas Data Wrangling Cheat Sheet

Data Wrangling with dplyr and tidyr



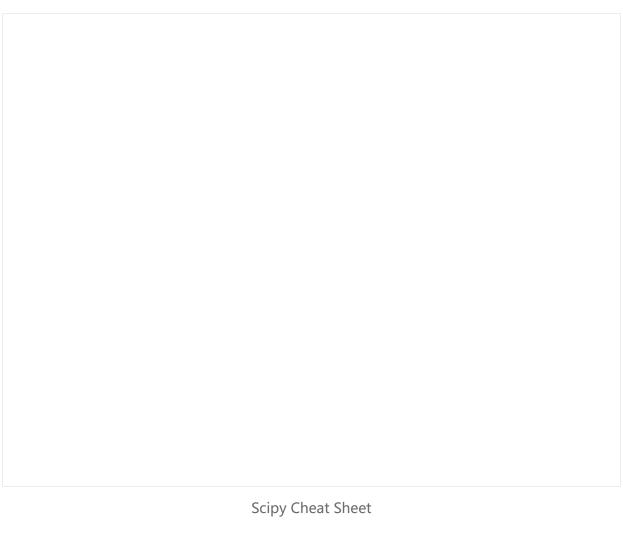
Data Wrangling with dplyr and tidyr Cheat Sheet



Data Wrangling with dplyr and tidyr Cheat Sheet

SciPy

基于 NumPy 数组对象构建,是 NumPy 堆栈的一部分,包含 Matplotlib, pandas 和 SymPy 等工具,以及一个科学计算库的扩展集。



Matplotlib

Matplotlib是Python中常用的可视化工具之一,便于创建海量类型2D图表和一些基本的3D图表。

Matplotlib Cheat Sheet

数据可视化



Data Visualization Cheat Sheet



ggplot cheat sheet

PySpark



Pyspark Cheat Sheet

Big-O



Big-O Algorithm Complexity Chart

Big-O Array Sorting Algorithms

备忘单来源:

Big-O Algorithm Cheat Sheet:

http://bigocheatsheet.com/

Bokeh Cheat Sheet:

https://s3.amazonaws.com/assets.datacamp.com/blog assets/Python Bokeh Cheat Sheet.pdf

Data Science Cheat Sheet: https://www.datacamp.com/community/tutorials/python-data-

science-cheat-sheet-basics

Data Wrangling Cheat Sheet:

https://www.rstudio.com/wp-content/uploads/2015/02/data-wrangling-cheatsheet.pdf

Data Wrangling:

https://en.wikipedia.org/wiki/Data_wrangling

Ggplot Cheat Sheet:

https://www.rstudio.com/wp-content/uploads/2015/03/ggplot2-cheatsheet.pdf

Keras Cheat Sheet:

https://www.datacamp.com/community/blog/keras-cheat-sheet#gs.DRKeNMs

Keras:

https://en.wikipedia.org/wiki/Keras

Machine Learning Cheat Sheet:

https://ai.icymi.email/new-machinelearning-cheat-sheet-by-emily-barry-abdsc/

Machine Learning Cheat Sheet: https://docs.microsoft.com/en-in/azure/machine-

learning/machine-learning-algorithm-cheat-sheet

ML Cheat Sheet::

http://peekaboo-vision.blogspot.com/2013/01/machine-learning-cheat-sheet-for-scikit.html

Matplotlib Cheat Sheet:

https://www.datacamp.com/community/blog/python-matplotlib-cheat-sheet#gs.uEKySpY

Matpotlib:

https://en.wikipedia.org/wiki/Matplotlib

Neural Networks Cheat Sheet:

http://www.asimovinstitute.org/neural-network-zoo/

Neural Networks Graph Cheat Sheet:

http://www.asimovinstitute.org/blog/

Neural Networks:

https://www.quora.com/Where-can-find-a-cheat-sheet-for-neural-network

Numpy Cheat Sheet:

https://www.datacamp.com/community/blog/python-numpy-cheat-sheet#gs.AK5ZBgE

NumPy: https://en.wikipedia.org/wiki/NumPy

Pandas Cheat Sheet:

https://www.datacamp.com/community/blog/python-pandas-cheat-sheet #gs.ound fx Market Market

Pandas: https://en.wikipedia.org/wiki/Pandas_(software)

Pandas Cheat Sheet:

https://www.datacamp.com/community/blog/pandas-cheat-sheet-python#gs.HPFoRIc

Pyspark Cheat Sheet:

https://www.datacamp.com/community/blog/pyspark-cheat-sheet-python#gs.L=J1zxQ

Scikit Cheat Sheet:

https://www.datacamp.com/community/blog/scikit-learn-cheat-sheet

Scikit-learn:

https://en.wikipedia.org/wiki/Scikit-learn

Scikit-learn Cheat Sheet:

http://peekaboo-vision.blogspot.com/2013/01/machine-learning-cheat-sheet-for-scikit.html

Scipy Cheat Sheet:

https://www.datacamp.com/community/blog/python-scipy-cheat-sheet#gs.JDSg3OI

SciPy: https://en.wikipedia.org/wiki/SciPy

TesorFlow Cheat Sheet:

https://www.altoros.com/tensorflow-cheat-sheet.html

Tensor Flow:

作者|Stefan Kojouharov

原文地址

https://becominghuman.ai/cheat-sheets-for-ai-neural-networks-machine-learning-deep-learning-big-data-678c51b4b463

资源推荐

斯坦福大学Tensorflow深度学习课程表

资源 | 多伦多大学"神经网络与机器学习导论" 2017年课程表

爆款 | Medium上6900个赞的AI学习路线图,让你快速上手机器学习

Chatbot大牛推荐: AI、机器学习、深度学习必看9大入门视频

Quora十大机器学习作者与Facebook十大机器学习、数据科学群组

128篇论文,21大领域,深度学习最值得看的资源全在这了(附一键下载)

葵花宝典之机器学习:全网最重要的AI资源都在这里了(大牛,研究机构,视频,博客,书籍,

Quora.....)

重磅 | 数据科学入门必看:来自斯坦福、MIT、微软、Twitter等名校名企的20门课程清单 资源 | 机器学习讲阶,给你推荐13款ML框架

