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Cheat Sheets for AI, Neural Networks, Machine Learning, Deep Learning & Big Data

The Most Complete List of Free Cheat Sheets

Over the past few months, I have been collecting Cheat Sheets from time to time I share them with my colleagues and students. I have finally gathered a few, and decided to organize and share the complete list. Some are more interesting and give rise to a lot of advised descriptions and/or synopsis for each topic name.

This is the more complete list and I'm sure that you will like it, or at least one.

If you like this list, you can let me know here.

Neural Networks

Neural Networks Cheat Sheet

Neural Networks Graphs

Neural Networks Graphs Cheat Sheet

Neural Networks Cheat Sheet

Ultimate Guide to Artificial Intelligence (AI) Artificial Neural Networks (ANN) Cheat Sheet

Machine Learning Overview

Machine Learning Cheat Sheet

Machine Learning: Scikit-learn algorithm

This machine learning cheat sheet helps you quickly decide what algorithm to use on the provided data or what step of data prep to do next. The flowchart will help you to remember a handful of useful options and estimators that will help you to know more about this problem and how to solve it.

Scikit Learn Cheat Sheet

Scikit-Learn

Scikit-learn (formerly scikits.learn and also known as scikit.learn or sklearn) is a free software machine learning library for the Python programming language. It features various classification, regression and clustering algorithms including support vector machines, random forests, gradient boosting, k-means and DBSCAN, and is designed to interoperate with the Python numerical and scientific libraries NumPy and SciPy.

SCIKIT-LEARNING ALGORITHM CHEAT SHEET

MACHINE LEARNING : ALGORITHMS CHEAT SHEET

This machine learning cheat sheet helps you quickly decide what algorithm to use on the provided data or what step of data prep to do next. The flowchart will help you to remember the handful of useful options and estimators that will help you to know more about this problem and how to solve it.

Python Data Science Cheat Sheet

Ultimate Guide to Artificial Intelligence (AI) Artificial Neural Networks (ANN) Cheat Sheet

Python for Data Science

Python Data Science Cheat Sheet

Big Data Cheat Sheet

TensorFlow

In May 2015 Google announced the second generation of the TPU, or Tensor Processing Unit, which is a machine learning ASIC. The second generation TPUs deliver up to 180 teraflops of performance, and when organized into clusters of 64 TPUs, they provide up to 11.5 petaflops.

TensorFlow Cheat Sheet

Keras

In 2017, Google's TensorFlow team decided to support Keras in TensorFlow's core library. Chollet, the author of Keras, explained that Keras was conceived to be an interface rather than a tool or a framework. Keras aims to offer a better high-level API, to provide a cleaner, more intuitive interface, to provide better error messages, to make it easier to configure networks, to provide better documentation and more examples, and to be more pleasant to work with.

Keras Cheat Sheet

Numpy

Numpy targets the CPython reference implementation of Python, which is a non-optimizing bytecode interpreter. Mathematical algorithms written for this version of Python often may run slower than compiled equivalents. Numpy aims to address the speed problem partly by providing multi-dimensional arrays and functions and operations intended to work on arrays fast, assuming enough memory, and numpy can call libraries that are

Numpy Cheat Sheet

Pandas

The name "Pandas" is derived from the term "panel data", an econometric term for multi-dimensional structured data sets.

Pandas Cheat Sheet

Data Wrangling

The term "data wrangler" is starting to achieve pop culture. In 2017 the movie Kong: Skull Island, one of the characters played by John Goodman, is introduced as "Mason Weaverwood, our data wrangler".

Data Wrangling Cheat Sheet

Ultimate Guide to Artificial Intelligence (AI) Data Wrangler and Cleaner Cheat Sheet

Data Wrangling with dplyr and tidyr Cheat Sheet

Scipy

SciPy builds on the NumPy array object and is part of the NumPy stack which includes tools like Matplotlib, pandas and SymPy, and an expanding set of scientific computing libraries. This NumPy stack has similar users to other applications such as MATLAB, IDL, Octave, and R-R. There is also a procedural "pylab" interface modeled after MATLAB available in Matplotlib, part of the SciPy stack. The NumPy stack is also sometimes referred to as the SciPy stack.

Scipy Cheat Sheet

Matplotlib

matplotlib is a plotting library for the Python programming language and its numerical mathematics extension NumPy. It provides an object-oriented API for embedding plots into applications using general purpose GUI toolkits like Tkinter, wxPython, Qt, or GTK+. There is also a procedural "pylab" interface modeled after MATLAB available in Matplotlib, part of the SciPy stack. matplotlib is designed to be as similar as possible to MATLAB, as well as free software, with the advantage that it exists.

Matplotlib Cheat Sheet

Data Visualization

Data Visualization Cheat Sheet

ggplot2 Cheat Sheet

PySpark

PySpark Cheat Sheet

Big-O