Data Science Useful Links

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## Python

### Design Aphorisms

[PEP 20 -- The Zen of Python | Python.org](https://www.python.org/dev/peps/pep-0020/)

### Coding Conventions

<https://lwn.net/Articles/868490/>

<https://pep8.org/>

### OOP

[Introduction to object-oriented programming with Python - Learn | Microsoft Docs](https://docs.microsoft.com/en-us/learn/modules/python-object-oriented-programming/)

[Object-Oriented Programming (OOP) in Python 3 – Real Python](https://realpython.com/python3-object-oriented-programming/)

[What is Object Oriented Programming? OOP Explained in Depth (educative.io)](https://www.educative.io/blog/object-oriented-programming)

### Regular Expressions

<https://pycon2016.regex.training/regex-intro>

### Projects & Exercises

[About - Project Euler](https://projecteuler.net/)

[The Python Challenge](http://www.pythonchallenge.com/)

[The Big Book of Small Python Projects (inventwithpython.com)](https://inventwithpython.com/bigbookpython/)

### Code Visualization

[Python Tutor - Visualize Python, Java, C, C++, JavaScript, TypeScript, and Ruby code execution](https://pythontutor.com/)

## Machine Learning

### Algorithms

Tree based: [52.Trees.key (mlvu.github.io)](https://mlvu.github.io/lectures/52.Trees.annotated.pdf)

### Metrics

<https://neptune.ai/blog/balanced-accuracy>

### Projects

[CS 229: Machine Learning Final Projects, Autumn 2014 (stanford.edu)](http://cs229.stanford.edu/projects2014.html)

### Papers

[The latest in Machine Learning | Papers With Code](https://paperswithcode.com/)

### Practice

[Interview Query | Interview Questions](https://www.interviewquery.com/questions?searchQuery=&searchQuestionTag=&searchCompany=&ordering=Default&pageSize=20&page=0)

## Deep Learning

### Visualize

[alexlenail/NN-SVG: Publication-ready NN-architecture schematics. (github.com)](https://github.com/alexlenail/NN-SVG)

## SQL

### Learn

<https://sqlbolt.com/lesson/>

## Git & GitHub

[Learn Git Branching](https://learngitbranching.js.org/)

## Report Writing & Documentation

[Home - How to Write a Good Documentation - Library Guides at UC Berkeley](https://guides.lib.berkeley.edu/how-to-write-good-documentation)

[Process Documentation: Definition, Best Practices & How to Do It (helpjuice.com)](https://helpjuice.com/blog/process-documentation)

## Courses & Other learning

[Introduction to Computer Science with Python](https://www.youtube.com/watch?v=nykOeWgQcHM&list=PLUl4u3cNGP63WbdFxL8giv4yhgdMGaZNA)

[Introduction to Computational Thinking in Data Science](https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-0002-introduction-to-computational-thinking-and-data-science-fall-2016/lecture-videos/)

[Microsoft Learn | Microsoft Docs](https://docs.microsoft.com/en-us/learn/)

[Data School](https://www.dataschool.io/)

[30 days of JavaScript](https://github.com/Asabeneh/30-Days-Of-JavaScript)

[Repository of Machine Learning courses](https://github.com/dair-ai/ML-YouTube-Courses)