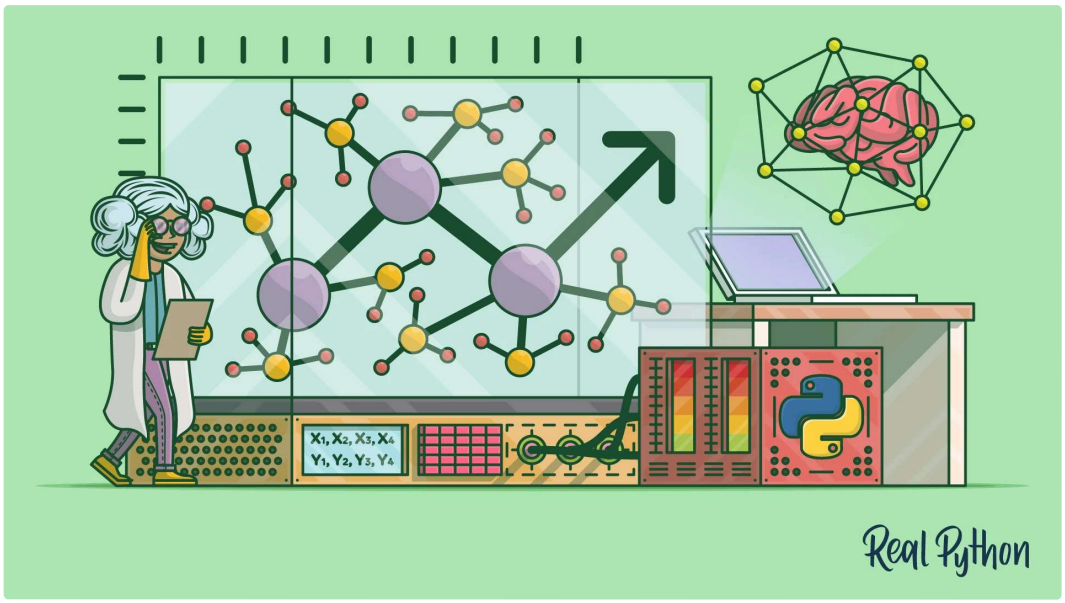
Math for Data Science

Learning Path · **Skills:** Statistics, Correlation, Linear Regression, Logistic Regression



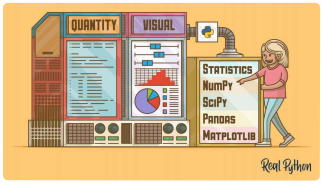
In this learning path, you'll gain the mathematical foundations you'll need to get ahead with data science.

Additional Resources

- Data Science Topic on Real Python
- Machine Learning Topic on Real Python

Math for Data Science

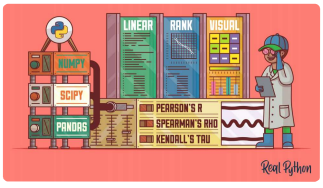
Learning Path · 5 Resources



Tutorial

Python Statistics Fundamentals: How to Describe Your Data

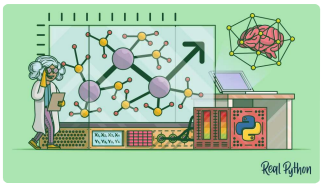
Learn the fundamentals of descriptive statistics and how to calculate them in Python. You'll find out how to describe, summarize, and represent your data visually using NumPy, SciPy, Pandas, Matplotlib, and the built-in Python statistics library.



Tutorial

NumPy, SciPy, and Pandas: Correlation With Python

Learn what correlation is and how you can calculate it with Python. You'll use SciPy, NumPy, and Pandas correlation methods to calculate three different correlation coefficients. You'll also see how to visualize data, regression lines, and correlation matrices with Matplotlib.

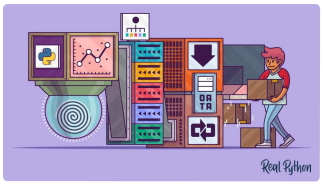


Tutorial

Linear Regression in Python

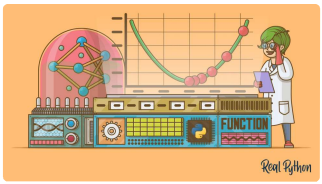
Get started with linear regression in Python. Linear regression is one of the fundamental statistical and machine learning techniques, and Python is a popular choice for machine learning.

Tutorial



Logistic Regression in Python

Get started with logistic regression in Python. Classification is one of the most important areas of machine learning, and logistic regression is one of its basic methods. You'll learn how to create, evaluate, and apply a model to make predictions.



Tutorial

Stochastic Gradient Descent Algorithm With Python and NumPy

...th

Looking for real-time conversa
"Office Hours" Live Q&A Sessic

```
# How to merge two dicts
# in Python 3.5+

>>> x = {'a': 1, 'b': 2}
>>> y = {'b': 3, 'c': 4}

>>> z = {**x, **y}

>>> z
{'c': 4, 'a': 1, 'b': 3}
```


Improve Your Python