Python Packages for   
Data Science



**Anish Mahapatra**

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# Introduction

# Python Libraries – Overview

## Why Use Python Libraries for Data Science

### Ease of learning

### Less Code

### Prebuilt Libraries

### Platform Independent

### Massive Community Support

# List of Python Libraries for Data Science – 2022 (Note: Include Features, image, pros & cons, and applications for each library)

## Python Libraries for Math

### NumPy

* Features
* Pros
* Cons
* Applications

### SciPy

* Features
* Pros
* Cons
* Applications

### Theano

* Features
* Pros
* Cons
* Applications

## Python Libraries for Data Exploration and Visualization

### Pandas

* Features
* Pros
* Cons
* Applications

### Matplotlib

* Features
* Pros
* Cons
* Applications

### Plotly

* Features
* Pros
* Cons
* Applications

### Seaborn

* Features
* Pros
* Cons
* Applications

### Ggplot

* Features
* Pros
* Cons
* Applications

### Altair

* Features
* Pros
* Cons
* Applications

### Autoviz

* Features
* Pros
* Cons
* Applications

### Pydot

* Features
* Pros
* Cons
* Applications

## Python Libraries for Machine Learning

### Keras

* Features
* Pros
* Cons
* Applications

### SciKit-Learn

* Features
* Pros
* Cons
* Applications

### PyTorch

* Features
* Pros
* Cons
* Applications

### Pycaret

* Features
* Pros
* Cons
* Applications

### TensorFlow

* Features
* Pros
* Cons
* Applications

### Requests

* Features
* Pros
* Cons
* Applications

## Python Libraries for Data Mining and Data Scrapping

### Scrapy

* Features
* Pros
* Cons
* Applications

### BeautifulSoup

* Features
* Pros
* Cons
* Applications

### SQLAlchemy

* Features
* Pros
* Cons
* Applications

## Python Libraries For Natural Language Processing

### NLTK

* Features
* Pros
* Cons
* Applications

### SpaCy

* Features
* Pros
* Cons
* Applications

### Gensim

* Features
* Pros
* Cons
* Applications

## Bonus Python Libraries!

### OpenCV

* Features
* Pros
* Cons
* Applications

### Mahotas

* Features
* Pros
* Cons
* Applications

### SimpleITK

* Features
* Pros
* Cons
* Applications

### Pillow

* Features
* Pros
* Cons
* Applications

### Selenium

* Features
* Pros
* Cons
* Applications

### PyTest

* Features
* Pros
* Cons
* Applications

### PyUnit

* Features
* Pros
* Cons
* Applications

# Conclusion

# Frequently Asked Questions (FAQs)

## Which library is most used in Python?

## Which software is best for Python for data science?

## Which Python library should I learn first?

## Which Python library is used for machine learning?

## How many libraries are in Python?

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