

Roadmap to Become a Python Expert

Topics Covered:- Python Basic & Advance, Python OOPs, Python Library Tutorial, Python Projects.

Advanced Libraries:- Python Tkinter, Python Django, Python Selenium Machine Learning, Deep Learning, Python Hacking, Data Structure & Algorithms, Etc..

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Python Basic

1. Setup
2. Python IDE
3. Variables
4. Escape Sequence
5. Row String
6. Print Emoji
7. Operators
8. Strings
9. Input Function
10. Int Function
11. String Formatting
12. String Indexing
13. String Slicing
14. Len Function
15. Lower & Upper Function

16. Count Function
17. Title Function
18. Find & Replace
19. Range & Step Functions
20. Center Method
21. And & Or Function
22. Keyword Function
23. If Statement
24. Else , Elif Statement
25. Nested if Else Statement
26. Pass Statement
27. For Loop
28. Break & Continue
29. While & Do While
30. Home Assignment

Python Advance

1. List
2. Tuple
3. Dictionary
4. Set
5. Def Function
6. Lambda Expression
7. Map Function
8. Zip Function
9. Any Function
10. All Function
11. Reduce Function
12. Max & Min Function
13. Filter Function
14. Python OOP's Concepts
15. Regex

16. OOPs Classes
17. OOPs Objects
18. OOPs Inheritance
19. OOPs Multiple Inheritance
20. OOPs Multilevel Inheritance
21. OOPs Polymorphism
22. OOPs Constructor
23. OOPs Destructor
24. Module
25. Exception
26. File Handling
27. Generators
28. Itertools Module
29. Data structures

Python Tkinter Tutorial

1. Setup And Installation
2. Create First GUI App
3. Title
4. Icon
5. Window Size
6. Button
7. Combo-box
8. Radiobutton
9. Frame
10. Level
11. Canvas
12. Check-button
13. Entry
14. Level-frame
15. Menu

16. Menu button
17. List-box
18. Message
19. Option Menu
20. Progress-bar
21. Scroll bar
22. Separator
23. Tree-view, and many more.
24. On Screen Keyboard
25. Advance Calculator
26. Gui Calculator
27. Banking Software
28. GUI Clock
29. To-do List
30. Extra Projects.

Python Selenium Tutorial

1. Installation And Setup
2. Web Driver Commands
3. Navigational Commands
4. Conditional Commands
5. Implicit wait & Explicit Wait
6. Input Box
7. Text Box
8. Radio Buttons
9. Check Boxes
10. Drop Down List
11. Links And Web
12. Alerts/Popups
13. Switching to Alerts/Popups
14. Frames/iFrames
15. Switch between the frames
16. Browser Windows
17. Switch between the Windows
18. Scroll Web Pages

19. Handle Mouse Actions
20. Mouse Hover Action
21. Handle Mouse Actions
22. Double click Action
23. Handle Mouse Actions
24. Right-click Action
25. Handle Mouse Actions
26. Drag and Drop
27. Upload Files
28. Download Files
29. Capture Screenshots
30. Working with Cookies
31. Word Press Automation Posts
32. Whats Bulk Software
33. Extra Projects

Python Django Tutorial

- | | |
|---|--|
| <ol style="list-style-type: none">1. Introduction2. Basics3. Overview4. Environment5. Creating a Project6. Apps Life Cycle7. Admin Interface8. Creating Views9. URL Mapping10. Template System11. Models12. Get Data13. Function-Based View14. Class-based View15. Django Signals | <ol style="list-style-type: none">16. Django Threading17. Django ORM18. Page Redirection19. Django Data Flow20. Django Middleware21. Django Searching22. Form Processing23. Message Function24. File Uploading25. Slug, Ckeditor26. Django Authentication27. Blog Project28. Ecom Project29. Dupolx Project30. IPLogger Website31. Extra Projects |
|---|--|

Python Data Analysis

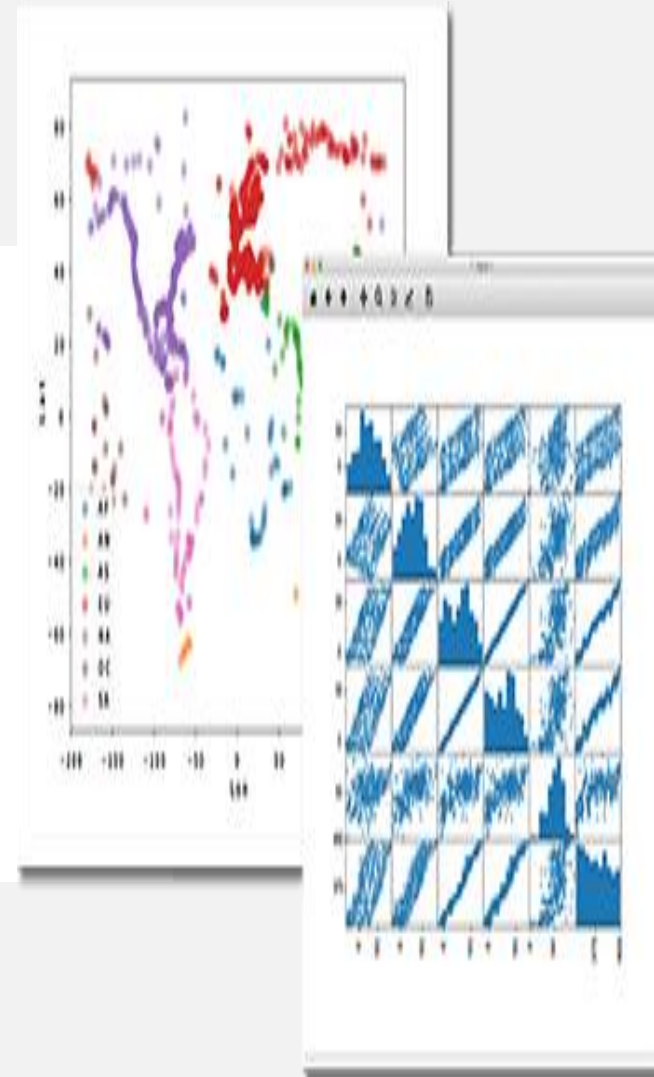


NumPy

matplotlib



pandas



Python Numpy Tutorial

1. Introduction
2. Setup + Anaconda
3. Creating Arrays
4. Create Arrays Using Functions
5. Array Indexing
6. Seed Function
7. Array Slicing
8. Data Types
9. NumPy Copy
10. Numpy View
11. Array Shape
12. Array Reshape
13. Array Iterating
14. Array Join
15. Array Split
16. Array Search
17. Array Sort
18. Array Filter
19. Random
20. NumPy ufunc
21. Numpy Stacking
22. Build Projects

Python Pandas Tutorial

1. Pandas Introduction
2. Pandas Setup
3. Pandas Series
4. Pandas Data Frames
5. Pandas Read CSV
6. Pandas Read JSON
7. Pandas Loc,
8. Pandas iloc
9. Pandas Head
10. Pandas Tail
11. Pandas Describe
12. Pandas Info
13. Pandas Group By
14. Pandas Null
15. Pandas is null
16. Pandas Not Null
17. Pandas Drop Na
18. Pandas Fill Na,value
19. Pandas inplace
20. Pandas Replace , to
21. Pandas Concat
22. Pandas Drop
23. Pandas Split, Apply
24. Pandas Combine
25. Pandas Analyzing Data
26. Pandas Cleaning Data
27. Pandas Correlations
28. Pandas Plotting
29. Build Projects

Python Matplotlib Tutorial

1. Matplotlib Intro & Set
2. Matplotlib Pyplot
3. Matplotlib Plotting
4. Matplotlib Markers
5. Matplotlib Line
6. Matplotlib Subplots
7. Matplotlib Scatter
8. Matplotlib Bars
9. Matplotlib Histograms
10. Matplotlib Pie Charts
11. Seaborn
12. Build Projects



Python Machine Learning

- Numpy Tutorial
- Pandas Tutorial
- Matplotlib Tutorial

- Linear Regression
- Linear Regression Multiple Variables
- Gradient Descent And Cost Function And Learning Rate
- Pickle And sklearn joblib
- get_dummies and OneHotEncoder
- Train Test Split

- **Supervised Learning**
 1. Linear Problem
 2. Classification Problem
- **Unsupervised Learning**
 - K Means Clustering
 - KNN (k-nearest neighbors)

- Logistic Regression
- Binary Classification
- Multiclass Classification
- Decision Tree
- Support Vector Machine (SVM)
- Random Forest
- K Fold Cross Validation

Python Extra Tutorial

- Deep Learning Tutorial
- Python Hacking Tutorial
- Data Structure Tutorial
- Algorithms Tutorial



Thank You