

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..

To view the next slide, swipe or click to proceed

Python Basic

- | | |
|-----------------------------------|-------------------------------------|
| 1. Setup | 16. Count Function |
| 2. Python IDE | 17. Title Function |
| 3. Variables | 18. Find & Replace |
| 4. Escape Sequence | 19. Range & Step Functions |
| 5. Row String | 20. Center Method |
| 6. Print Emoji | 21. And & Or Function |
| 7. Operators | 22. Keyword Function |
| 8. Strings | 23. If Statement |
| 9. Input Function | 24. Else , Elif Statement |
| 10. Int Function | 25. Nested if Else Statement |
| 11. String Formatting | 26. Pass Statement |
| 12. String Indexing | 27. For Loop |
| 13. String Slicing | 28. Break & Continue |
| 14. Len Function | 29. While & Do While |
| 15. Lower & Upper Function | 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.**

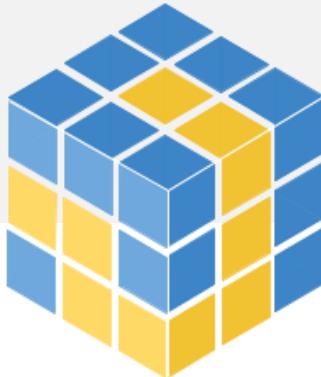
Python Selenium Tutorial

- 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

- 1. Introduction**
- 2. Basics**
- 3. Overview**
- 4. Environment**
- 5. Creating a Project**
- 6. Apps Life Cycle**
- 7. Admin Interface**
- 8. Creating Views**
- 9. URL Mapping**
- 10. Template System**
- 11. Models**
- 12. Get Data**
- 13. Function-Based View**
- 14. Class-based View**
- 15. Django Signals**
- 16. Django Threading**
- 17. Django ORM**
- 18. Page Redirection**
- 19. Django Data Flow**
- 20. Django Middleware**
- 21. Django Searching**
- 22. Form Processing**
- 23. Message Function**
- 24. File Uploading**
- 25. Slug, CKEditor**
- 26. Django Authentication**
- 27. Blog Project**
- 28. Ecom Project**
- 29. Dupolx Project**
- 30. IPLogger Website**
- 31. Extra Projects**

Python Data Analysis

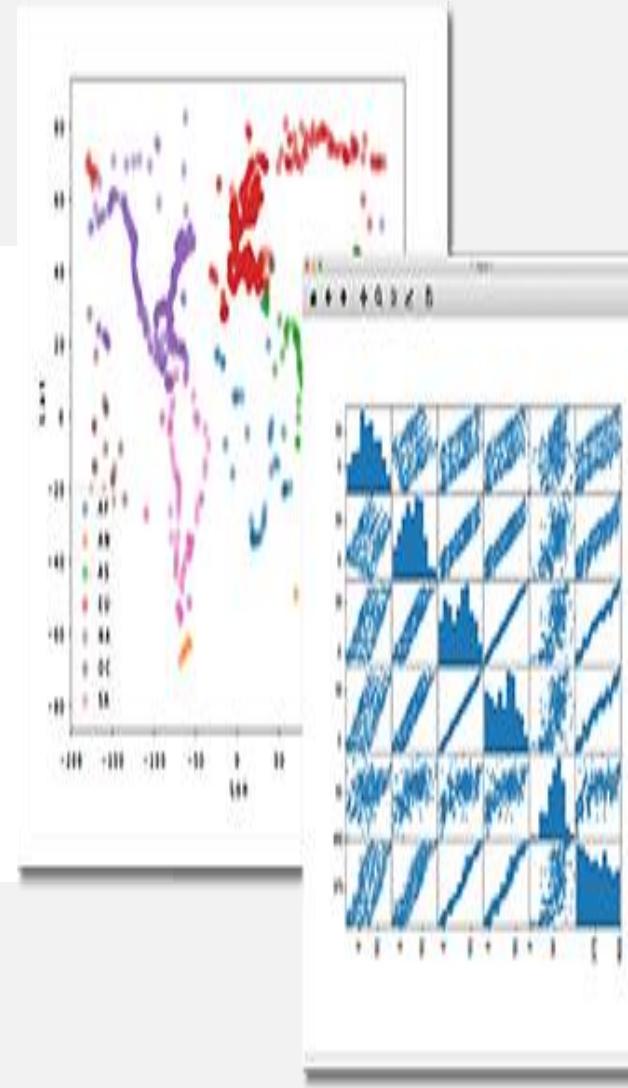


NumPy

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