

Python Fullstack Course Content

Core Python

1. Introduction to python
2. History Of Python
3. Advantages & Disadvantages of Python
4. Introduction to Interpreter
5. Python Installation
6. Python Program Execution Flow
7. Python Syntaxes
8. Introduction to IDE (Eclipse, PyCharm)
9. Python Program Development
10. Identifiers, keywords
11. Basic data types
12. Dynamic Typing
13. Type conversion functions
14. Operators
15. Operator Precedence
16. input/output
17. Reading User Input
18. Displaying Output
19. Formatting Output
20. Variables, expressions
21. Operators
22. Selection control statements
(if, if..else)
23. range data type ,indexing and slicing
24. Iterative control statements
(while, for..in, while...else, for..in .. else)
25. Transfer control statements
(Break & continue)
26. Python strings
27. List
28. Tuple
29. Set
30. Dictionary
31. Functions
32. Definition and advantages of a function
33. Understanding scope
34. Default arguments
35. Keyword arguments
36. Variable length arguments
37. Lambda expressions
38. Documentation & Annotations
39. Types of arguments
40. Scope of variables
41. Global variables
42. Local variables
43. Nested functions
44. Lambda functions
45. Exceptions
46. Syntax errors vs Runtime errors
47. Handling, Raising exceptions
48. Built-in exceptions
49. MemoryError
50. NameError
51. ValueError
52. TypeError
53. User-defined exceptions
54. Clean-up actions

PYTHON OOPS AND ADVANCED CONCEPTS

55. Introduction to OOPS
56. OOPS principles
57. Classes and Objects
58. Instance variables
59. Instance methods
60. Class variables,
61. Class methods
62. Constructors
63. Inheritance
64. Abstract classes
65. Inner classes
66. Exception handling
67. Regular expressions
68. File handling
69. Accessing (reading / writing) files
70. Serialization
71. Multithreading
72. Introduction to Database
73. Python Database Connectivity
74. CRUD Operations with Database
75. Unit Testing
76. Mini Projects Development
77. Debugging

Django Framework

78. Introduction to Web Development
79. Introduction to Django Framework
80. Features of Django
81. Django Installation
82. MVC Model
83. HTTP Concepts
84. Views
85. URL Mapping

Templates

86. Django Template Language
87. Utilities of Templates
88. Creating Template Objects
89. Tags, Variables and Filters
90. Rendering Templates
91. Template Inheritance

Django Forms

92. Form Handling
93. Form Classes
94. Form validations and Error Messages
95. Form Display
96. Capturing Form data
97. Advanced Form Processing



Learn Here.. Lead Anywhere..!!



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Django Models

- 98. Django Models
- 99. Model Fields
- 100. Model Inheritance
- 101. Primary keys and the Model
- 102. Dynamic Webpages
- 103. Toggle Hidden Content
- 104. JQuery and AJAX integration
- 105. Serialization and Deserialization

REST API Development

- 106. Django REST Framework
- 107. REST Principles
- 108. Serializer class
- 109. Model Serializers
- 110. REST APIs
- 111. JSON, parsing object to JSON and back
- 112. Swagger
- 113. POST MAN
- 114. REST Client Development
- 115. REST Security

Misc Discussion

- 116. Page redirection
- 117. Sending Emails
- 118. Deploying Django framework
- 119. Generic views
- 120. File uploading
- 121. Cookie handling
- 122. Session Management
- 123. Mini Projects Development

TOOLS

- 124. Git HUB
- 125. Jenkins

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