



Core and Advance Python

Training in Hyderabad

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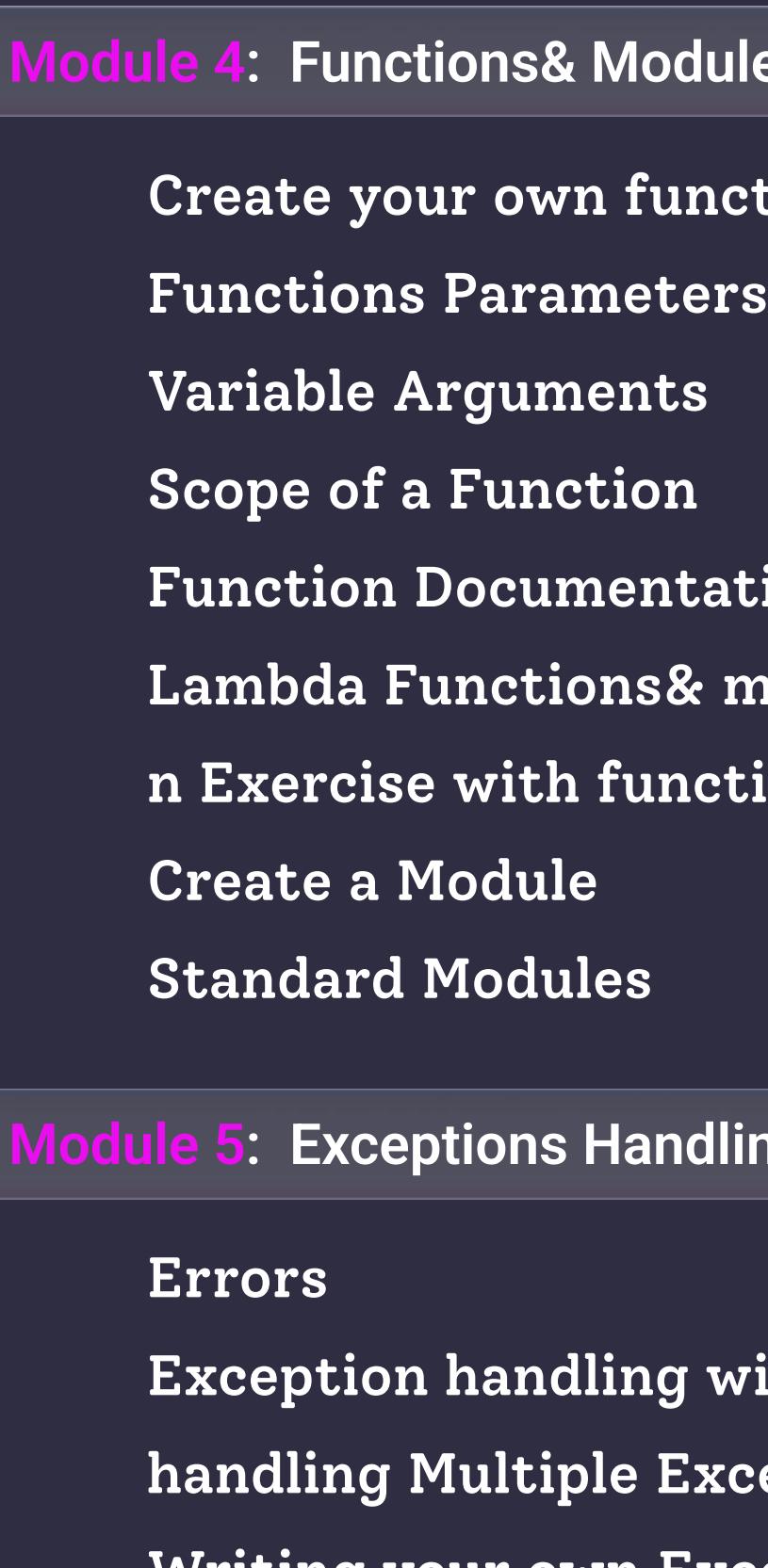
Our Mission & Visions

Our Mission

Our mission is simple – to help you upgrade your knowledge and stay relevant in the fast-changing IT industry. As technology evolves, staying updated is not just important, it's necessary to survive and grow. With our program, you'll build the right skillsets to sustain your career confidently. A simple rule we follow: The more you learn, the faster you earn.



Our Vision



Our vision is to UPSKILL Professionals and prepare them for real-world industry needs. We want to build a strong, skilled workforce that not only grows in their careers but also contributes to the growth of the country. Our goal is to become a trusted name in job-oriented, practical training that makes a real difference in people's lives.

Course Topics: Introduction to Python

Module 1: An Introduction to Python

- What can Python do?
- Why Python?
- Good to know
- Why Python?
- Python Syntax compared to other programming languages
- Python Install



Module 2: Beginning Python Basics

- The print statement
- Comments
- Python Data Structures & Data Types
- String Operations in Python
- Simple Input & Output
- Simple Output Formatting
- Operators in python



Module 3: Python Program Flow

- Indentation
- The If statement and its' related statement
- An example with if and it's related statement
- The while loop
- The for loop
- The range statement
- Break & Continue
- Assert
- Examples for looping



Module 4: Functions& Modules

- Create your own functions
- Functions Parameters
- Variable Arguments
- Scope of a Function
- Function Documentations
- Lambda Functions& map
- n Exercise with functions
- Create a Module
- Standard Modules



Module 5: Exceptions Handling

- Errors
- Exception handling with try
- handling Multiple Exceptions
- Writing your own Exception



Module 6: File Handling

- File handling Modes
- Reading Files
- Writing& Appending to Files
- Handling File Exceptions
- The with statement



Module 7: Classes In Python

- New Style Classes
- Creating Classes
- Instance Methods
- Inheritance
- Polymorphism
- Exception Classes & Custom Exceptions



Module 8:Generators and iterators

- Iterators
- Generators
- The Functions any and all
- With Statement
- Data Compression



Module 9: Data Structures

- List Comprehensions
- Nested List Comprehensions
- Dictionary Comprehensions
- Functions
- Default Parameters
- Variable Arguments
- Specialized Sorts

Module 10: Collections

- namedtuple()
- deque
- ChainMap
- Counter
- OrderedDict
- defaultdict
- UserDict
- UserList
- UserString

Module 11: Date and Time

- sleep
- Program execution time
- more methods on date/time

Module 12: Few more topics in-detailed

- Filter
- Map
- Reduce
- Decorators
- Frozen set
- Collections

Module 13: Regular Expression

- Split
- Working with special characters, date, emails
- Quantifiers
- Match and find all
- character sequence and substitute
- Search method

Module 14: Threads ESSENTIAL

- Class and threads
- Multi-threading
- Synchronization
- Treads Life cycle
- use cases

Module 15: Data Analysis -- Pandas

- introduction to Pandas
- Series
- Data Frames
- Missing Data
- Groupby
- Operations
- Merging, Joining and concatenating
- Missing Data
- Data Input and Output

Module 16: Data Analysis -- NumPy

- introduction to NumPy
- ndarray
- Indexing and Slicing
- Reshape and Flatten
- Arithmetic operations
- Universal Functions
- Linear Algebra
- Random Numbers

Module 17: Data Analysis -- Matplotlib

- introduction to Matplotlib
- Line Plot
- Bar Plot
- Scatter Plot
- Box Plot
- Heatmap
- Pie Chart

Module 18: Data Analysis -- Seaborn

- introduction to Seaborn
- Facet Grid
- Pair Grid
- Facet Grid
- Pair Grid

Module 19: Data Analysis -- TensorFlow

- introduction to TensorFlow
- Tensor
- Graph
- Session
- Optimizer
- Loss Function
- Accuracy

Module 20: Data Analysis -- PyTorch

- introduction to PyTorch
- Tensor
- Graph
- Optimizer
- Loss Function
- Accuracy

Module 21: Data Analysis -- Keras

- introduction to Keras
- Model
- Layer
- Optimizer
- Loss Function
- Accuracy

Module 22: Data Analysis -- PyTorch Lightning

- introduction to PyTorch Lightning
- Model
- Layer
- Optimizer
- Loss Function
- Accuracy

Module 23: Data Analysis -- TensorFlow Lightning

- introduction to TensorFlow Lightning
- Model
- Layer
- Optimizer
- Loss Function
- Accuracy

Module 24: Data Analysis -- PyTorch Geometric

- introduction to PyTorch Geometric
- Model
- Layer
- Optimizer
- Loss Function
- Accuracy

Module 25: Data Analysis -- PyTorch 3D

- introduction to PyTorch 3D
- Model
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Module 26: Data Analysis -- PyTorch 3D

- introduction to PyTorch 3D
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Module 27: Data Analysis -- PyTorch 3D

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Module 28: Data Analysis -- PyTorch 3D

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Module 29: Data Analysis -- PyTorch 3D

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Module 30: Data Analysis -- PyTorch 3D

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Module 31: Data Analysis -- PyTorch 3D

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Module 32: Data Analysis -- PyTorch 3D

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Module 33: Data Analysis -- PyTorch 3D

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Module 34: Data Analysis -- PyTorch 3D

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Module 38: Data Analysis -- PyTorch 3D

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Module 39: Data Analysis -- PyTorch 3D

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- Accuracy

Module 40: Data Analysis -- PyTorch 3D

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