Cognixia®

COURSE CONTENT

COURSE NAME

Python Automation

DURATION

5 Days

COURSE OUTLINE

- Python – An Introductions
- Conditional Statements
- Loops
- Data Structure
- Shallow Vs Deep Copy
- List Vs Tuple
- List Comprehensions
- Definitions
- Special Functions
  - Lambda
  - Map
  - Filter
  - Reducer
- Decorators
- Generators
- File Operations
  - Text file
  - Csv file
  - Json file
- DB operations
- Regular Expression
- Multi-tasking
  - Multi-processing
  - Multi-threading
- Email With Attachment
- Modules
  - os
  - sys
  - math
  - logger
  - pdb
  - datetime

- o subprocess
- requests, urllib
- Pytest
- Selenium
- Socket , nmap
- paramico
- Exception Handling
- REST API (FLAKS App)
  - o REST Architecture
  - o REST APIs and Web Services
  - o HTTP Methods
  - o Status Codes
  - o API Endpoints
  - o REST and Python: Consuming APIs
  - o GET
  - o POST
  - o PUT
  - o PATCH
  - o DELETE
  - o REST and Python: Building APIs
  - o Identify Resources
  - o Define Your Endpoints
  - o Pick Your Data Interchange Format
  - o Design Success Responses
  - o Design Error Responses
  - o REST and Python: Tools of the Trade
  - o Flask
  - o Django REST Framework
  - o FastAPI
- CICD - GitHub, Jenkins
- Data Analytics Libraries
  - o numpy
  - o pandas
  - o matplotlib
- AIML – Data pre processings
- AIML – Linear Regression
- AIML – Logistic Regression