



AICTE



**CYBERVIDYAPEETH
FOUNDATION**

**200 HOURS OF INTENSIVE
FREE**

**CYBER ENGINEERING SKILL BUILDING
ON**

"CYBER OFFENSIVE - DEFENCE ENGINEERING USING VIRULENT PYTHON"



Starting from 1st September 2022


For Registration Apply Online




<https://cybervidyapeeth.in/training/cyber-rakshak-beginner/>



<https://t.me/+fQeixlodqnFjZDA1>

 **+91 971 114 7900**

 **www.cybervidyapeeth.in**

 **mentor@cybervidyapeeth.in**

THE SYLLABUS



PYTHON PROGRAMMING

PYTHON PROGRAMMING-I

- Install & Setup
- Basic syntax
- Keywords and identifiers
- Comments , variable and data types
- Operators ,control flow (decision making , looping, branching)
- String manipulation
- List ,tuples,set and dictionary(Basics)
- Arrays
- Functions(User defined and built-in)

PYTHON PROGRAMMING-II

- Modules
- File Handling
- Exception handling
- Networking Programming
- Web Scraping
- Working With Images
- Working With PDFs and Spreadsheet CSV Files
- Project:Automating Job Applications on LinkedIn
- Project:Create an Automated Amazon Price Tracker

DATA SCIENCE

DATA SCIENCE-I

- Installation of Python, Jupyter Notebook & Google Colab
- Data Type, List, Functions, Loops
- NumPy - Math Operations & Array, Pandas Dataframe
- Reading CSV file & DB data
- Basic Statistics - Mean, Median & Mode
- Variance, SD, Population vs. Sample
- Central Tendency Theory
- Charts & Graphs for Analysis Distribution-Normal, Uniform & Poisson, p-value
- Hypothesis Testing

DATA SCIENCE-II

- Overview of ML - Training
- Confusion Matrix
- R-Square
- Supervised Vs. Unsupervised
- Regression
- Decision Tree & Random Forest
- K-Means Clustering
- Packet Capture, Metadata Extraction And Anomaly Detection
- Network Flow Analytics & Anomaly Detection
- Dns Fast Flux Attack Detection

DATA SCIENCE

PYTHON FOR SECURITY-I

- Building a port scanner
- Constructing a SSH Botnet
- Dictionary password cracker
- ZIP file Brute-Force crackerIntroduction to python shell
- Write python reverse shell (Windows)
- Write python reverse shell (Linux)
- Write python bind shell
- Handling Url's using python
- Write customised port scanner using python
- Perform banner grabbing

PYTHON FOR SECURITY-II

- Sniffing wireless network for personal information
- Lisntening for preferred networks and indentifying hidden wireless networks
- Stalking Bluetooth Radios
- Exploiting Bluetooth vulnerabilities
- Anonymously browsing the internet with the mechanize class
- Interacting with Google using python
- Interacting with Twitter using python
- Python for OSINT
- Threat Intel & Osint Using Python & Opensource Libraries



CYBERVIDYAPEETH FOUNDATION

Launching World's Unique "Cyberversity Certified Cyber Rakshak-Beginner"

