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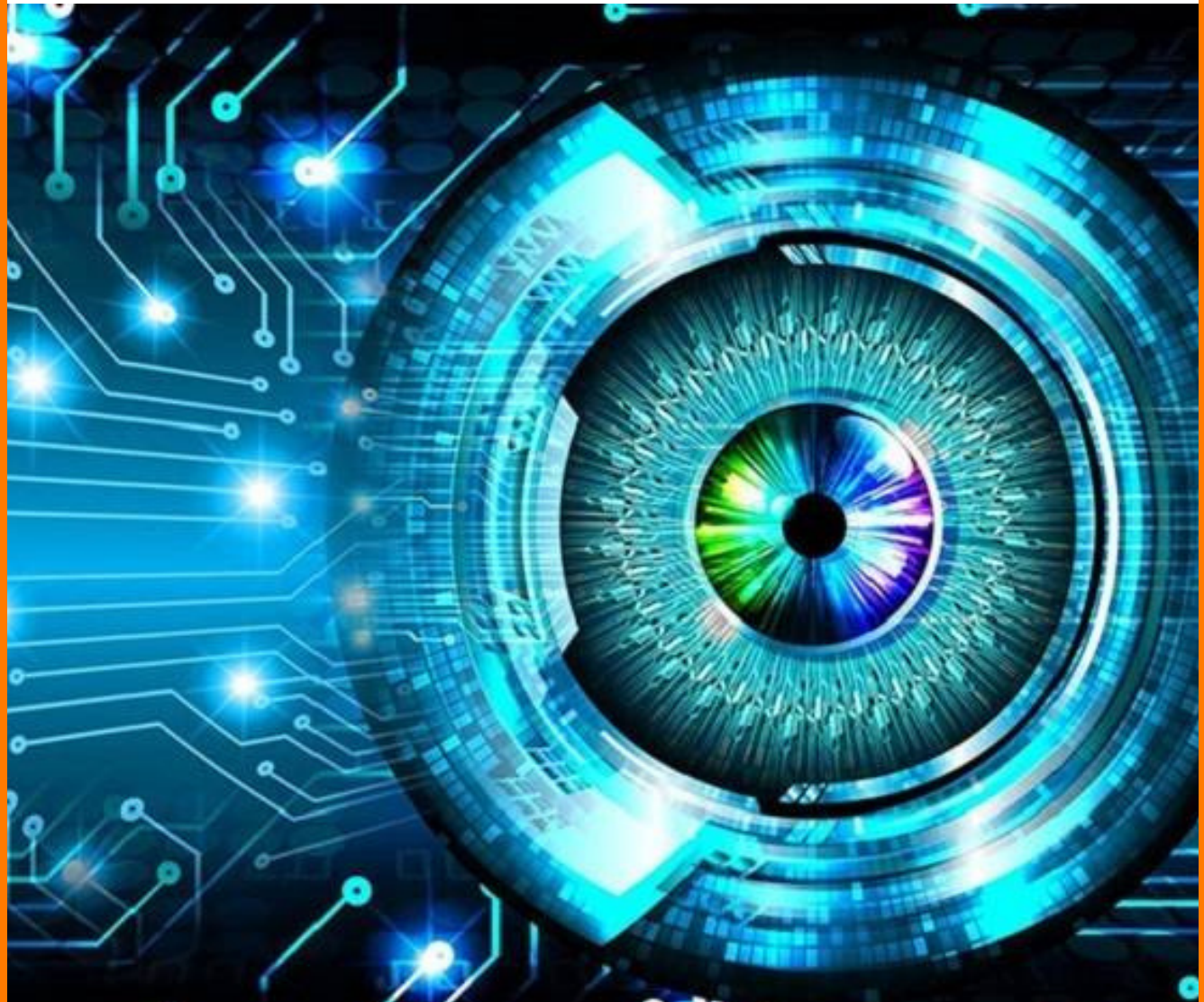
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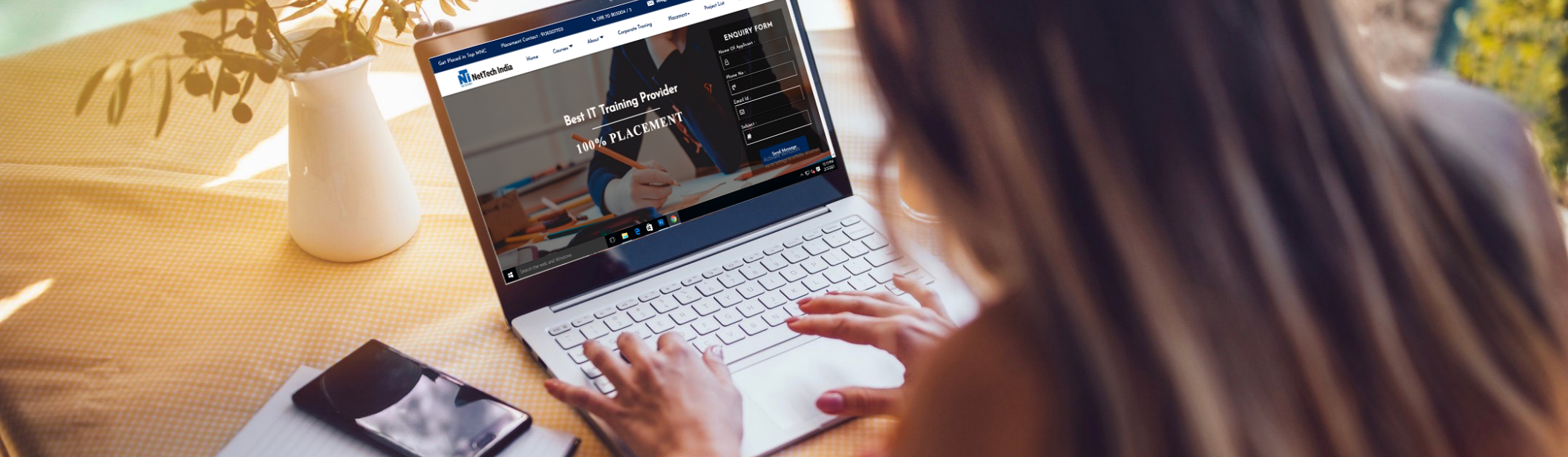


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# OPEN CV CERTIFICATION





## ABOUT US

NetTech India Training Institute offers a high-quality learning experience in the field of IT training to train students on brand new technologies and train them to deliver the desired results with commercially relevant and re-organized technical skills.

The probability of achieving your dream job will keep on increasing day by day once you complete a course in NetTech India. We also focus on improving soft skills in terms of communication, leadership, teamwork, external appearance, and attitude which helps everyone to be professional in all the aspects of their career.



**25%**  
Theory



**75%**  
Practicals

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# ABOUT OPEN CV CERTIFICATION

NetTech Open CV course is for the novice people who are keen to work in the field of computer vision and artificial intelligence. Throughout this Module, you will be designing Python Applications. At the end of this Module, you should be able to;

- Perform Data Visualization on the browser using Bokeh
- Perform Web Scraping
- Perform Motion Detection using OpenCV

Our focus is to offer easy to follow techniques to make them applicable in the real world.



# BENEFITS OF OPEN CV CERTIFICATION

- ➔ Career Growth - Higher Pay & Position
- ➔ Encourages professional development
- ➔ Enriches self-image and reputation
- ➔ Enhances professional credibility.
- ➔ Abundant Job Opportunities
- ➔ Used In Many Industries
- ➔ Global Recognition
- ➔ Secure and Flexible
- ➔ 50+ Case Studies
- ➔ 10+ Projects



# COURSE CONTENT

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## 1 Beautiful Soup Library

## 2 Introduction to Python

- History of Python
- Why learn python
- How is Python Different?
- Installing Python

## 3 Python Interpreter

- Using the interpreter
- Integrated Development Environments (IDE)
- How to run Python programs?

## 4 Basics of Python

- Variable
- Keywords
- Statements & Comments
- Indentation

- Data types
- Static Typing vs Dynamic Typing
- Input and output

## **5 Operators**

- Arithmetic operator
- Relational Operator
- Assignment Operator
- Logical operator Bitwise operator
- Membership Operator
- Identity Operator

## **6 Control Flow**

- If statement
- If - else
- If – elif -else
- Nested if - else
- while loop
- for – in loop

- Nested loop
- Loop with else
- Pass statement
- Break and continue

## **7 Functions**

- Function Basics
- Defining function
- function call
- Return statement
- Function parameters
- Call by value or call by reference
- local and global variable
- Recursion, Anonymous (lambda) function

## **8 Modules**

- Defining module
- How to create a module
- Importing module

- Dir()
- Module search path
- Reloading a module
- Sys module
- Os module
- namespace

## **9 Package**

- Defining package
- How to create a package
- Importing package
- Installing third party packages

## **10 Numeric types**

- Numeric type basics
- Numbers
- Hexadecimal, Octal and Binary Notation
- Complex Numbers
- Typecasting Numeric Functions
- Random number generation



## 11 String

- Defining a string
- Different ways to create a string
- Accessing elements of string
- Escape sequence
- Raw string
- String methods
- String formatting Expressions

## 12 List

- List
- Defining a list
- Creating list
- Accessing list elements of the list
- Deleting list
- List methods
- Functions used with the list
- List comprehension

- Implementation of stack and queue using the list
- Use of Zip ()
- Matrix operations using list

### **13 Tuple Defining a tuple**

- Creating a tuple
- Accessing elements of tuple
- Immutability
- List vs tuples
- Tuple Methods
- Functions used with tuple
- Advantage of Tuple

### **14 Dictionary**

- Defining a dictionary
- Creating a dictionary
- Accessing elements of the dictionary
- Deleting a dictionary
- Dictionary methods
- Dictionary Comprehension

## **15 Set**

- Defining a set
- Creating set
- Set operations
- Set methods
- Set comprehension

## **16 Files**

- Defining a file
- Types of fileFile operations
- Opening a File
- Closing file
- File modes
- File attributes
- Writing to file
- Reading from file
- Appending to file
- File positions
- Binary file
- Pickle module

## **17 Exception Handling**

- Defining an exception?
- Default exception handler
- Exception handling techniques
- Detecting Exception (try)
- Catching exceptions (catch)
- Catching multiple exceptions
- Raising exception (raise)
- Finally block
- User defined exceptions

## **18 Object Oriented Programming**

- Oop concepts Defining a class
- Creating object
- Method vs function
- Calling methods
- Instance attribute vs class attribute
- Instance method vs class method

- Private attribute and method
- Static method
- Method Overloading
- Constructor
- List of objects
- Inheritance
- Method overriding
- Operator overloading
- Abstract method
- Abstract class

## **19 Requests Library**

## **20 Scrap all hyperlinks from a webpage, using BeautifulSoup & Requests**

## **21 Plotting charts using Bokeh**

## **22 Plotting scatterplots using Bokeh**

## **23 Image Editing using OpenCV**

## **24 Face detection using OpenCV**

## **25 Motion Detection and Capturing Video**

**And Many More...**

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# WHO CAN LEARN ?

- Anyone who wants to build a career as a Data Scientist..
- Anyone who wish to gain knowledge about Data Visualization.
- Students who are currently in college or university.

# CAREER OPPORTUNITIES

- Computer Vision Engineer
- OpenCV Developer
- Data Scientist
- Machine Vision Engineer
- Business Analyst
- Image Processing Expert

**And Many More...**

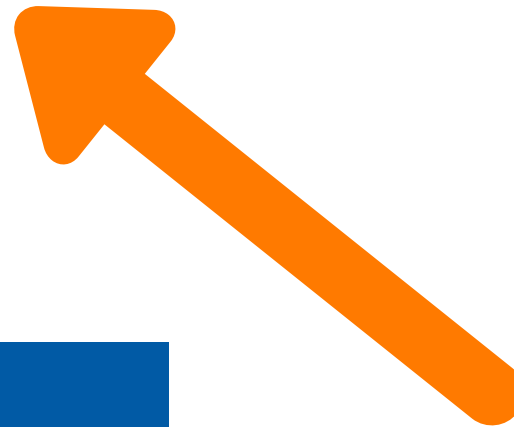


# PROCESS FOR **SUCCESS**

**GET PLACED**

**GET TRAINED**

**ENROLL**



# FACILITIES OFFERED

- ➔ Practical Training on Live Projects
- ➔ 100% Placement Guarantee
- ➔ Interview Preparation
- ➔ Global Certification
- ➔ Fully functional labs
- ➔ Online / Offline Training
- ➔ Study Materials
- ➔ Expert level industry recognized training





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