



NTI TECH ACADEMY

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# PYTHON

## Introduction

- Installing Python in Windows/Linux/Mac OS
- Using Python interpreter
- Execute a Script
- Structuring with Indentation
- Editors

## Data types and Variables

- Variables
- Variables v/s identifiers
- Naming convention of variables
- Keywords

## Data Structure

- List
- Tuples
- Sets
- Dictionaries

## Input And Output

- Input function
- Input with `raw_input()`
- Output with old string format
- Python format function

## Control Flow

- If/Else Statements

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- For/while Statements
- Range() function
- Break and continue statements
- Else clauses on Loops

## Functions

- Defining Function
- Default Argument
- Keyword Argument
- Arbitrary Arguments List

## File Handling

- Reading from the file
- Writing to the file
- Methods of file objects

## Error And Expectation

- Syntax Errors
- Exceptions
- Handling Exceptions (try, except)

## Module

- Creating Modules
- Import a module
- Import the names
- Executing modules as scripts

## Class Concept

- Class Syntax
- Class Objects
- Instance Objects
- Method Objects
- Class and Instance Variables

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## Advanced Modules

- Regular Expressions
- datetime - date and time libraries
- Dealing with Excel
- GUI
- Web Scrapping

## Python Analytic

### Numeric and Scientific calculations

- Numpy
- Scipy
- Pandas
- Matplotlib
- Scikit Learn
- Statsmodels
- Seaborn
- Urllib2

Classification and clustering algorithms

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