

Artificial Intelligence

100 Hours

SYLLABUS

Python Advanced Programming 40 Hours

- Python basic programs
- Python for Artificial intelligence
- Python libraries - Numpy, Matplotlib, Scikit-learn
- Data visualization
- Image processing

AI Programming Using Python 60 Hours

- PHP Introduction
- Why PHP and where it stands in Web environment
- Job Scope
- MySQL Introduction
- Apache Installation
- MySQL Installation
- PHP Installation
- PHPMyAdmin Installation

Unit 3 : Core PHP 60 Hours

- Overview Of PHP
- Static vs. Dynamic Web Sites
- Dynamic Content from Databases
- Developing Dynamic Internet Applications
- Client-Side Scripting vs. Server-Side Scripting
- Overview of PHP Advantages and Capabilities
- Configuring PHP.INI
- PHP vs. ASP
- Basic PHP
- echo and print Statements
- Comments in PHP
- PHP Case Sensitivity
- Defining variable and constant
- PHP Data Types
- PHP Operators
- Conditional Operators
 - if , if...else, if...elseif....else statement
 - switch Statement
 - The ? (Ternary) Operator

- **Looping Constructs**
 - while, do...while, for, foreach

- **Introduction to the Apache Web Server**
 - What is Apache?
 - The main benefits / advantages
 - Apache Installation
 - Apache Virtual Host
 - Name-based Virtual Hosts
 - IP-based Virtual Hosts

- **PHP Functions**
 - Introduction to Functions
 - User Defined Functions
 - Passing Arguments to Functions
 - Variable scope
 - Local and Global Scope
 - Passing Arguments by Reference
 - Returning Values from a Function
 - Using Include Files
 - The Require Statement
 - Dynamic Function Calls
 - Recursive Functions
 - Predefined PHP Functions

- **PHP Arrays**
 - What is an Array?
 - Why do we use arrays?
 - Indexed Arrays
 - Associative Arrays
 - Multidimensional Arrays
 - Sorting Arrays In PHP
 - Array Functions

- **PHP MySQL Database And Forms**

- What is MySQL?
 - Queries
 - PHP's Database APIs
 - Configuring PHP For Database Support
 - MySQL vs. Access
 - MySQL vs. SQL Server
 - Forms And Program
 - Insert Data Into
 - Insert Multiple Records Into MySQL
 - HTTP GET, POST, And Request methods
 - Insert Data From a Form Into a Database
 - PHP MySQL Select (Retrieving Data from Forms)
 - PHP MySQL The Where Clause
 - PHP MySQL Order By Keyword
 - PHP MySQL Update
 - PHP MySQL Delete
 - Looping through database
 - PHP Functions Specific to MySQL
- Using Cookies with PHP
 - What is a Cookie?
 - How to Create a Cookie?
 - How to Retrieve a Cookie Value?
 - How to Delete a Cookie?
- PHP Sessions
 - What is a PHP Session
 - Starting a PHP Session
 - Storing And Retrieve Session Variable
 - Session Unset
 - Destroy A PHP Session
- Miscellaneous PHP Tasks
 - Error Logging
 - Using Environment Variables
 - PHP Redirect To Another URL
 - Getting IP Addresses from Visitors
 - PHP - Function preg_match()

- PHP 5 File Handling
- String Functions
- E-Commerce Site
 - What is E-Commerce
 - E-commerce platforms on the market
 - Opencart - Basics
- SQL Injection - Introduction
- PDO - Introduction
- Introduction to Frameworks
- Introduction to CMS (Content Management System)
 - WordPress
- Introduction to open Source CMF (Content management framework)
 - Codeigniter

Unit 4 : Codeigniter

30 Hours

- Introduction To Codeigniter
 - What is a PHP Framework
 - MVC Pattern
 - Why Should we use a PHP Framework?
 - When to use a PHP Framework?
 - What are the Best PHP Frameworks Available?
 - Codeigniter Overview
 - Codeigniter Features
 - Codeigniter Basic Concepts And Application Architecture
 - Installing Codeigniter
 - Basic Configuration Options
 - Database Configuration
 - Codeigniter - Application Architecture
 - Directory Structure
 - Codeigniter - MVC Framework
 - Application URL Structure
- Controller

- Controller Introduction
- Calling a Controller
- Creating & Calling Constructor Method
- Controller function
- Interacting with views
- Views
 - Views- Introduction
 - Loading the View
 - Working with configuration layout
 - Creating custom layout
 - Controller variables and parameters
 - CodeIgniter URLs
 - Passing argument through url
 - Redirection
 - Form And Getting post data
- Models
 - Model Introduction
 - Creating Model Class
 - User defined function in model
 - Connecting to a Database
 - Automatic Connecting
 - Manual Connecting
 - Inserting Data To Database
 - Fetching data
 - Deleting data
 - Updating data
- Helpers
 - Helpers – Introduction
 - Array Helper, Cookie Helper, Date Helper, URL Helper, etc..
 - Loading a Helper
 - Autoload Configuration
- Libraries
- Data Validation
- CodeIgniter Classes

- Database
 - Input
 - Loader
 - URI
 - Validation Class
- Session Management
 - Initializing a Session
 - Add Session Data
 - To retrieve all session data
 - To remove all session data
 - Flashdata
 - Retrieve Flashdata
 - Cookie Management

Our Facilities



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