

PYTHON

Web Applications | Machine Learning | IOT



Machine Learning in PYTHON

6 Months Course in Web and Machine Learning Concepts

Machine learning is a branch in computer science that studies the design of algorithms that can learn.

Typical tasks are concept learning, function learning or “predictive modeling”, clustering and finding predictive patterns. These tasks are learned through available data that were observed through experiences or instructions, for example.

The course has two main objectives: One to create Web application in python and second to add machine learning techniques in the project using Python, R code.

This course will introduce the learner to applied machine learning, focusing more on the techniques and methods than on the statistics behind these methods.

Core Basics Of Python

1. Introduction and Overview
2. Install and Setup Python and PYcharm IDE
3. Variable Types and Input
4. Basic Operators
5. Decision Making
6. Loops and Date & Time
7. Numbers and Strings
8. Lists,Tuples and Dictionary
9. Built-in Functions,User Defined Functions
10. Built-In Modules
11. File I/O
12. Managing Directories
13. Exception handling
14. python Slice and Slicing

Advanced Python

1. GUI Programming
2. Sending Emails
3. Reg Expression

OOPS in Python

1. Classes and Self
2. Class Constructor(__init__)and Destructor
3. Inheritance its Types and Polymorphism

Database

1. MySql Introduction
2. Install MySql Connector for python
3. Curd(Create,Update,Read,Delete) Operations
4. Basic functions

Advance MySql

1. All Types of Joins
2. Wildcards
3. Triggers
4. Union
5. Stored Procedure
6. Views
7. Indexes

Basics Of Web Development

1. Html, Html5, Css and Css3
2. javascript
3. Client Side Validation using javascript
4. JQuery
5. Slider Creation using Javascript and JQuery
6. Animations and moving Objects using JQuery

Web Framework DJANGO

1. Django Installation
2. Introduction and Overview
3. Project Creation
4. Http Request and Response
5. Url Mapping
6. Life Cycle
7. Creating View
8. Models
9. File Uploading
10. Server Side Validations
11. Sessions and Cookies
12. Template Implementation
13. Online Project Start
14. Domain Purchase and Web Space Purchase
15. Deployment of Project

Machine Learning

1. Introduction Machine Learning
2. Installing R and R Studio
3. Data PreProcessing
4. Regression and it's Types
5. Classification (Logistic Regression, Etc)
6. Clustering
7. Association Rule Learning
8. Reinforcement Learning
9. Natural Language Processing
10. Deep Learning
11. Artificial Neural Networks
12. Amazon Web Services
13. Google Machine Learning API
14. Prediction based ML Projects
15. Final Project