LIVE LECTURES

CERTIFICATE IN PYTHON FOR DATA SCIENCE

Live Course (Live Lectures)

COURSE
OVERVIEW

Get acquainted with the fundamental Python tools used for preparing the data for analysis and familiarize yourself with data science tools for processing the data, and using data science techniques to create meaningful insights and predictions.

COURSE
OBJECTIVE

Expand your knowledge of Data Manipulation and Data Analysis Tools, Python Statistics, Python Pandas
Data Visualization- the key technologies in data science using Python essentials.

SKILLS YOU WILL LEARN

You will gain the ability to inculcate Python data science libraries to analyze data, create advanced codes for the same & creating visualization using Python.

COURSE SKILL SET

- Introduction to Data Science
- Mathematical Foundation for Data Science
- Story Telling With Data
- Python Essentials

PROGRAM HIGHLIGHTS

- Instructor- Dr. Priti Maheshwary | / Dr. Pooja Bijlani
- Duration- 6 Months
- Eligibility- Any graduate with a Science stream
- No. of Modules - 28
- Placement training- Yes
- Language-English
- Shareable certificate- Yes
- Webinar- Yes

PROGRAM SYLLABUS

Paper 1

INTRODUCTION TO DATA SCIENCE

Chapter 1 - Introduction to Data Science

Chapter 2 - Real Life examples with applications

Chapter 3 - Data Scientist Job Roles and Responsibilities

Chapter 4 - The most promising Job of the 21st Century

Chapter 5 -The most promising Job of the 21st Century

Paper 1- LIve Lecture 1

Paper 2

MATHEMATICAL FOUNDATION FOR DATA SCIENCE

Chapter 1 - Vectors

Chapter 2 - Matrices

Chapter 3 - Linear Mapping

Chapter 4 - Basic Linear Algebra

Chapter 5 -Eigen Values and Eigenvectors

Chapter 5 -Calculus

Paper -2- Live Lecture 2

Paper 3

STORY TELLING WITH DATA

Chapter 1 - Storytelling Overview

Chapter 2 - How to create stories ?

Chapter 3 - Types of Data and Suitable Charts

Chapter 4 - Stories During the steps of Predictive Modelling

Chapter 5 - Best Practices of Story telling

Chapter 6 - Git and Github

Live Lecture

Internal Assessment

Paper 4

PYTHON ESSENTIALS

Chapter 1 - Installation of Anaconda Navigator

Chapter 2 - Jupyter Notebook Interface

Chapter 3 - How to Open ,save and Rename a file

Chapter 4 - Variables and Data Types

Chapter 5 -Python Strings

Chapter 6 - Loops

Chapter 7 - Python Functions (Built in, Lambda, User defined functions)

Chapter 8 - Lists

Chapter 9 - Tuples

Chapter 10 - Sets

Chapter 11 - Dictionaries

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