



MSME TECHNOLOGY DEVELOPMENT CENTRE

(Process & Product Development Centre)

Government of India Organization
Ministry of Micro, Small & Medium Enterprises

Online Training Program ***in*** ***Machine Learning and Data Analytics*** ***with Python***

**Machine Learning and Data
Analytics with Python**

ONLINE TRAINING



**Date -
13th to 16th Oct, 2020**

**Time -
5:00 p.m. to 7:30 p.m.**

**Contact us :-
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**Website :-
www.ppdccagra.dcmsme.gov.in**

Machine Learning and Data Analytics with Python

Table of Contents

S. No	Description	Page No
1	Introduction	1
2	About the Program	2
3	Certification	3

Introduction

The purpose of machine learning is to discover patterns in your data and then make predictions based on often complex patterns to answer business questions, detect and analyse trends and help solve problems. Machine learning allows the user to feed a computer algorithm an immense amount of data and have the computer analyze and make data-driven recommendations and decisions based on only the input data.

Python is a general-purpose programming language, meaning it can be used in the development of both web and desktop applications. It's also useful in the development of complex numeric and scientific applications. With this sort of versatility, it comes as no surprise that Python is one of the fastest-growing programming languages in the world.

We will be taking a close look as to why this versatile programming language is a must for anyone who wants a career in data analysis today or is looking for some likely avenues of upskilling. Once you're done, you'll have a better idea as to why you should choose Python for data analysis.

Python is a high-level language which used for general-purpose programming. It is a dynamic language which supports both structured programming as well as object oriented programming. Also Python has a very large library, which eases lots of tasks. So this was about why Python is used for data-analysis.

About the Program

What are the points covered in this course?

- Introduction to Python and Working with Python
- Number & Character processing
- Lists, Tuples, Dictionary
- Sets, Operators, Statements
- Functions and lambda functions
- File operations
- Numpy, Panda
- Visualisation
- Introduction to Statistics
- Introduction to Machine Learning
- Machine Learning is the Future
- Linear Regression – theory
- Linear Regression – hands-on
- Predict Numbers (discrete / continuous)
- Logistic Regression – theory
- Logistic Regression – hands-on
- Predict Binary classification (Yes/No)
- Decision Tree Theory
- Decision-Tree Hands-on
- Learn the simple intuition behind Support Vector Machines.
- SVM-Hands-on
- Random Forest – theory
- Random Forest – hands-on
- K-NN (k-Nearest Neighbours)

Certification

MSME – TDC (PPDC Agra) and its Extension Centre across India certifies all participants with a certificate after successful completion of program with an online exam. Government of India certificate would be issued with the name of respective centres.

Course fees, duration of the program and other details can be collected from the concerned coordinators of the centres. It also varies from time to time based on the schedule and contents of the program.

We wish you all the best and good luck in all your endeavours!

**Regards,
PPDC Team**