



DATA  
SCIENCE

## Online Training in Cloud Lab



WhatsApp: [+91-7530088009](https://wa.me/917530088009)

Call: India [+91-444-631-1234](https://tel.us/+914446311234)

USA [+1-650-265-2492](https://tel.us/+16502652492)

Email: [training@sparkdatabox.com](mailto:training@sparkdatabox.com)

Web: <https://sparkdatabox.com>

**Spark Databox** is known to be a pre-eminent platform for software certificate training and career development. Through our mission, we are a pioneer of positive change, improve productivity, increase the workforce, and creating a career opportunity for everyone. We are India's #1 software training institute. Apart from receiving excellent live training you will also receive free self-paced video courses, training materials, placement support, mock interviews and many more.

## Program Key Features

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- ❖ 100% Practical training
  - ❖ Experienced Trainers
  - ❖ 100% Placement assistance
  - ❖ Small batch size
  - ❖ Customized training content
- ❖ Real-time project training
  - ❖ Fully equipped cloud lab
  - ❖ 100% Customer support
  - ❖ 100% Money back guarantee

## About Course:

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The best **Data Science Python online** course is here. Our expert trainers at Spark Databox are here ready to guide you and launch your career. Our course is designed to be simple but with intense content. Concepts like statistics, Standard Deviation, correlation and covariance, outliers, hypothesis testing, chi-square, T-test, ANOVA, Linear Regression, Multiple Regression, Machine Learning, and Data Science. Since this course has practical applications the learner can apply these in real-world applications in a very experienced manner.

Data Science with python online course at Spark Databox will help you learn Python programming and its applications in data science. Python is easy to grasp. Python contains many libraries and many other features. You can perform data manipulation, analysis, and visualization. Data science with python online course will engage the learner to grasp python and it's usage in data science and will also form a conceptual base for cloud certification. The trainee can learn Python from our 100% free video-based Python3 tutorial as well.

## Contents

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### Section 1: Introduction to Data Science

- What is Data Science?
- What is Machine Learning?
- What is Deep Learning?
- What is AI?
- Real time applications

## Section 2: Introduction to Python

- What is Python?
- Why Python?
- Installing Python
- Python IDEs
- Jupyter Notebook Overview

## Section 3: Python Basics

- Python Basic Datatypes
- Lists
- IF statements
- Loops
- Tuples
- Functions
- Array

## Section 4: Python Packages

- Pandas
- Numpy
- Sci-kit Learn
- Mat-plot library

## Section 5: Data Pre-processing

- Importing the libraries
- Importing the dataset
- Missing Data
- Categorical Data
- Feature Scaling
- Splitting the Dataset into Test and Train

## Section 6: Manipulating Data

- Selecting rows/observations
- Head and Tail data display
- Describe Data
- Shape of dataset

## Section 7: Statistics Basics

- Mean
- Median
- Mode
- Skewness
- Normal Distribution
- Probability Basics
- What does mean by probability?
- Types of Probability
- Standard Deviation
- Data deviation & distribution
- Variance
- Bias-variance Tradeoff
- Under fitting
- Over fitting
- Distance metrics

## Section 8: Linear Algebra

- Norms
- Euclidean Distance
- Manhattan Distance
- Matrix multiplication
- Vector multiplication

## Section 9: Regression Algorithms - Machine Learning

- Introduction to Regression
- Algorithm Intuition
- Simple Linear
- Multiple Linear
- Polynomial Regression

## Section 10: Classification Algorithms - Machine Learning

- Introduction to Classical Algorithms
- Algorithm Intuition
- Logistic Regression
- Support Vector Classification
- Random Forest Classification

## Section 11: Real-time project

- Data Science Python project environment setup
- Real-time Data Science Python project
- Project demonstration
- Expert evaluation and feedback

## Section 12: You made it!!

- Spark Databox Data Science Python certification
- Interview preparation
- Mock interviews
- Resume preparation
- Knowledge sharing with industry experts
- Counselling to guide you to a right path in Data Science Python career

## You made it!!

Post completion of Data Science Python Online Course, a proper orientation for placements is done. With this training from experienced trainers, as professionals, you will be equipped with different proficiencies. This is a chance to open up and widen your prospects.

- Spark Databox Data Science Python course certification
- Interview preparation
- Mock interviews
- Resume preparation
- Knowledge sharing with industry experts
- Counseling to guide you to a right path in Data Science Python development career



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