

# Data Analytics with Python

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**Duration-45Hrs**

**Course Fees-@500/Hrs OR 15000**

**Certification Availability-Yes**

## **Course Content**

<b>Python Fundamentals</b>	Installation of Python
	Python data type, numbers, string, variable
	List, Tuples, Ranges, Dictionary, Sets
	Operator and Precedence
	If , If/Else, If/else/If, for loop, while loop, break
	Functions, Packages and Modules
	RW operation on file, Class and Objects
	Python Exceptions, Regular Expressions
<b>Numpy</b>	
<b>Numpy</b>	ndarray, array creation, dtype in numpy
	indexing, slicing,
	iterating over array
	Binary Operations, String Operation
	Sorting, Searching, Counting
	Linear Algebra
<b>Pandas</b>	
<b>Pandas</b>	Creating Pandas DataFrame
	dealing with Rows & Columns in Pandas DataFrame
	Indexing & Selecting Data in DataFrame
	Boolean Indexing
	Working with Missing Data, Text Data
	Merging, Joining, Concatenating
<b>Data Analysis</b>	
<b>Data Analysis</b>	Data Visualization using Matplotlib
	Data Visualization with Different Chart
<b>Statistics Fundamentals</b>	
<b>Statistics Fundamentals</b>	Graphically representing single Variable
	Measures of Location, Spread
	Displaying relationship-Bivariate Data
	Measures of Association of >2 Variables
	Covariance & Corelation
	Probability and Independent Event, Conditional Probability
	Bayes Theorem, Prior, Likelihood & Posterior
	Uniform Distribution, Normal Distribution
	Point Estimation, Interval Estimation
	Hypothesis Testing-One Sided, Two Sided