



## **Data Science with Python**

Course Duration: 120 Days

SNO	TOPICS
1	Basic Python Programming
	Introduction to Python
	Operators
	Data Types(Integer, String, List, Tuple, Dictionary, Set)
	Conditional statement
	loops
	Function
2	Python with Data Science
	Introduction to Data Science using Python
	Statistics and probability
	OOPs in Python
	NumPy for mathematical computing
	SciPy for scientific computing
	Data manipulation
3	Advanced Statistics
	Central tendency
	Variability
	Hypothesis testing
	Anova
	Correlation
	Regression
	Probability definitions and notation
	Joint probabilities
	The sum rule, conditional probability, and the product rule
	Bayes theorem
4	Machine Learning & Prediction Algorithms
	Machine learning using Python
	Supervised learning
	Unsupervised learning
	Dimensionality reduction
	Time-series forecasting
5	AI & Deep Learning using TensorFlow
	Introduction to Deep Learning and Neural Networks
	Multi-layered Neural Networks
	Artificial Neural Networks and various methods



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Deep	Learning	li	braries
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#### 6 Data Visualization with Tableau

Introduction to data visualization

Architecture of Tableau

Working with metadata and data blending

Creation of sets

Working with filters

Organizing data and visual analytics

Working with mapping

Working with calculations and expressions

Working with parameters

Charts and graphs

Dashboards and stories

Tableau Prep

### 7 Data Analysis with MS Excel

**Entering data** 

Referencing in formulas

Name range

Understanding logical functions & amp;

conditional formatting

Important formulas in Excel

Working with Dynamic table

Data transformation for analysis

Working with charts for data visualization

#### 8 Data Wrangling with SQL

Introduction to SQL

Database normalization and entity-relationship model

**SQL** operators

Working with SQL: Join, tables, and variables

Deep dive into SQL Functions

Working with Subqueries

SQL views, functions, and stored procedures