



# Learn & Master **Data Science.**

Classroom | Online | Corporate

# WHY

## School of Analytics

“As one of the INDIA's leading tech training and talent organisations, SOA helps individuals ranging from those at the start of their journey who want to learn Data Science to seasoned professionals looking to develop and extend professional services competencies, with training to get the most of Data Science.”



# Learning Pathway .

## 01 Programming with python

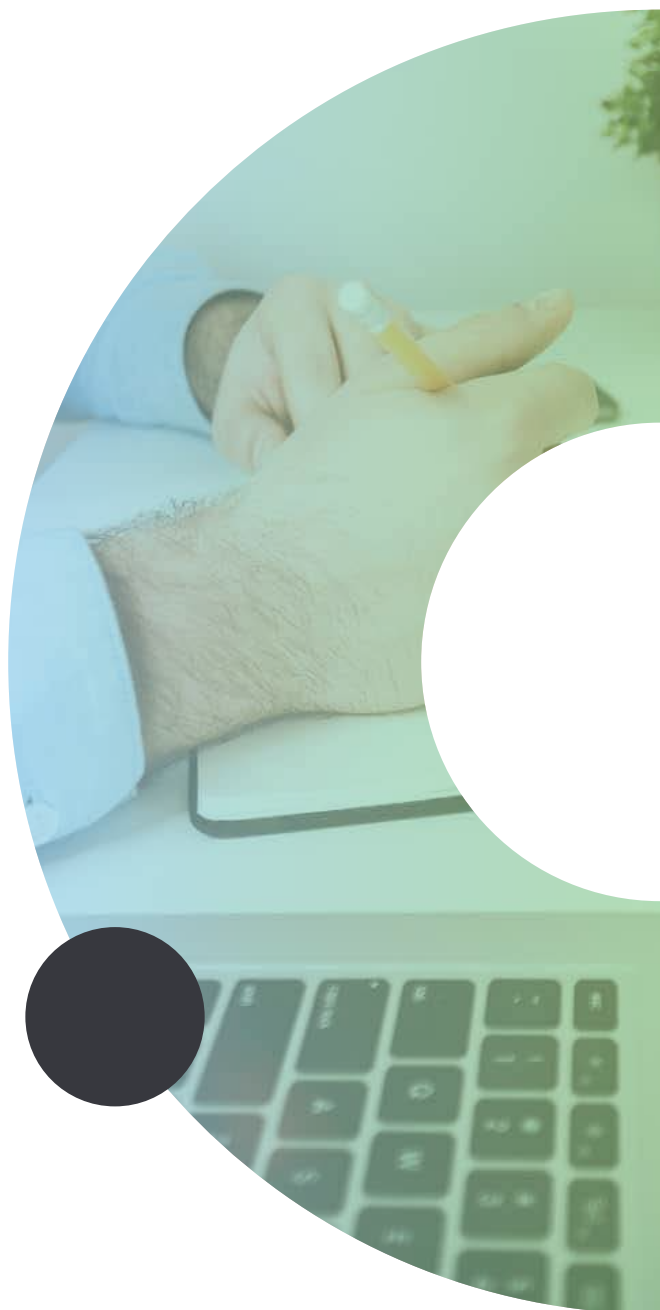
- Introduction to Programming Languages
- Python Real-Time IDEs
- Different modes of Python
- First python Program
- Python File Extensions
- Python Data Types
- Command Line Arguments
- Python Operators
- Control Statements
- Strings
- List Data Structure
- Working with Python Arrays
- Python Tuples
- Set Collection
- Dictionary Collection
- Functions
- Python Modules and Packages
- OOPs – Classes & Objects
- Exception Handling & Types of Errors
- Logging
- Regular Expressions
- Files in Python
- Date & Time Module
- Python Data Base Communications(PDBC)
- Data Analytics Modules
- Python NumPy
- Python Pandas
- Python Matplotlib.pyplot
- Python seaborn
- Python ploty
- Python statmodels

## 02 Statistics

- Descriptive statistics
- Inferential statistics
- Hypothesis Testing
- Regression Analysis

## 03 SQL with MySQL

- Introduction to SQL
- Commands In SQL
- Working with DRL
- SQL Operators
- SQL Functions
- Integrity Constraints



- Joins
- Sub Queries
- Views
- Indexes
- Stored Procedures
- Triggers
- Locks and Transactions

## 04 Machine Learning

- Introduction to Machine Learning
- Exploratory Data Analysis(EDA)
- Data Pre-Processing
- Supervised Machine Learning (Regression)
- Logistic Regression
- Ordinal Regression
- Naïve Bayes Classifier Algorithm
- Support Vector Machine
- Decision Tree
- K-Nearest Neighbor
- Random Forest
- Bagging and Boosting
- Dimensionality Reduction
- Time Series Analysis
- ARIMA, SARIMA and ARMA
- Clustering
- Hyper Parameter Optimization
- Feature Engineering
- Performance Evaluation
- Flask

## 05 Natural Language Processing(NLP)

- Basics of Natural Language Processing
- Machine Learning Modeling- Navie Bayies
- Word Net and Synsets
- Transformation Models-BERT
- LSTM model-RNN
- Corpus
- Regular expressions for overpattern

## 06 Deep Learning

- Deep Learning Introduction
- Artificial Neural Network
- Optimization Techniques
- Recurrent Neural Network (RNN)
- Convolution Neural Network (CNN)
- Auto Encoders
- TensorFlow
- OpenCV (Image processing & video Processing)

## 07 Power BI

- Introduction Of Power BI
- Power BI Beginner Course Outline
- Sneak Peek of Finished Product
- A Tour of Power BI
- Installing Power BI Desktop
- Downloadable Materials
- Building Your First Report
- Getting Data from Different Source
- Edit Data with Power Query
- Creating Relationships between tables
- Visualizing Data
- Report Design Basics
- Report Styling Basics
- Conditional Formatting
- Editing Interactions
- Themes
- Advanced Analysis with DAX
- Calculated Column
- Introduction to Measures
- Advanced Measures
- Dax functions References
- Publishing to Power BI Service
- Creating a Power BI Account
- Setting up a workspace and Publishing
- 4 ways to share reports
- Setting Up automatic data refreshesc
- Subscriptions
- Dashboard Vs Reports



*Develop a passion for learning. If you do, you will never cease to grow.*



Let us know how we can help you, or your  
organisation with your learning or  
talent requirements.

## CONTACT US



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