

ADVANCE DATA ANALYTICS



Upgrader



Advancer

Data Analytics Training (60 Hours)

Make data-driven decisions by upgrading your teams Data Analytics skill-set

Sentilient AI's Data Analytics(DA) Corporate Training is a 4 modules, part-time, online Bootcamp that offers from learning the fundamentals of Data Analytics all the way to efficiently train and benchmark accurate predictive models through hands-on experience.

Data analysis is important in businesses to understand problems facing an organization, and to explore data in meaningful ways. Data analysis organizes, interprets, structures, and presents the data into useful information that provides context for the data.

Takeaways-

- Cohorts will learn how to analyze large data sets and generate information from disparate data using tools
- Identify the goals of machine learning, and how it differs from statistical analysis
- Build predictive models to make better business decisions
- Utilize essential tools from Python's Scikit-Learn library
- Understand the purpose and use of supervised & unsupervised machine learning
- Understand bias-variance tradeoff in model building, and how it's handled using tools to help choose appropriate hyperparameters
- Evaluate model performance

Who should attend?

- VPs, Senior Managers
- Developers & Engineers
- Functional Business Managers and Business Heads
- Leadership Roles with Oversight of Data Science Teams
- College Faculties & PhD Candidates

Prerequisites-

- Visualization and data Understanding

What cohorts learn-

Over the course of four weeks, attendees get hands-on experience with foundational Data Analytics skills that will allow them to build predictive ML models to make better business decisions that can improve revenue, reduce costs, create new opportunities within your organization.

Module 1

Python

- Overview Of Analytics
- Data Science Project Lifecycle
- Data Injection Methods
- Exploratory Data Analytics
- Data Frame Operations
- Python Pivot Tables
- Data Summarization

IDE

- Anaconda
- Jupyter Notebook
- Data Importing
- Version Management
- Notebook Management

Module 2

Visualisation & Dashboarding

- Individual charting introduction
- Combination Chart
- Secondary Axis Addition
- Time Series Charting
- Static Dashboard Creation
- Adding Dynamic capabilities

Technologies

- Plotly
- Dash
- HTML
- HTML App layout
- HTML App Callback

Module 3

Data Pre-processing

- Missing Data Treatment
- Target Variable Identification
- Data reidentification
- Data imbalance treatment

Case Studies

- Loan default predictor
- Sales Price Prediction

Supervised Learning

- Regression
 - Linear Regression
 - Multiple Linear Regression
 - Polynomial Regression
 - Support Vector Regression (SVM)
 - Decision Tree Regression
 - Random Forest Regression
- Classification
 - Logistic Regression
 - K-Nearest Neighbours (K-NN)
 - Naïve Bayes
 - Decision Tree Classification
 - Random Forest Classification
 - Logistic Regression

Module 4

Unsupervised Learning

- Clustering
 - K - means
 - Hierarchical
- Association
 - Apriori

Case Studies

- Ad Revenue Prediction
- Team Player Categorization
- Marketing Offer Creation

Time Series

- Detrend
- Moving Average
- Smoothing
- Auto Regression
- ARMA
- ARIMA

[Register for Advance Data Analytics Training](#)

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