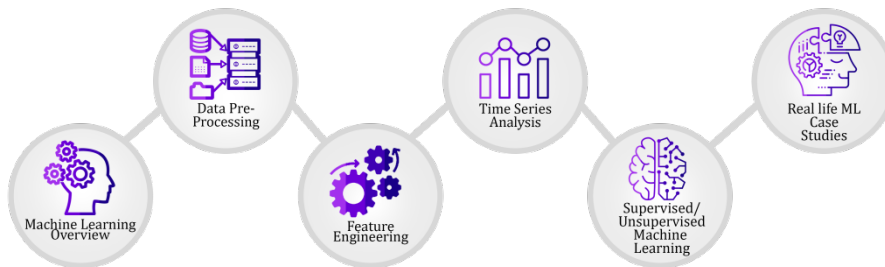


MACHINE LEARNING



Make Intelligent decisions with ML (40 Hours)

Sentilient AI's Machine Learning(ML) Corporate Training is a 3 module, online course that helps businesses to understand problem-statements for an organization, and to explore data in meaningful ways to organize, interpret, structure, and present the data into useful information that provides companies the analysis.

The purpose of this corporate training is to provide professionals with foundational ML skills that will allow them to build predictive machine learning models to make better business decisions that can improve revenue, reduce costs, create new opportunities and more. Through powerful Python packages such as Scikit-Learn, teams will gain a strong understanding of core concepts in ML, as well as the ability to efficiently train and benchmark accurate ML models through hands-on experience.

Takeaways-

- Analyze larger data sets and generate information from disparate data using the ML algorithms & tools
- Identify the goals of machine learning, and how it differs from statistical analysis
- Build ML models to make better business decisions
- Understand the purpose and use of supervised & unsupervised ML in the real-life applications
- Understand the data preparation & feature engineering cycle for the ML modeling
- Understand bias-variance trade-off in model building, and how it's handled using tools to help choose appropriate hyperparameters, evaluate model performance, etc.

Who should attend?

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

What cohorts learn-

Over the course of 3 weeks, attendees get hands-on experience with ML algorithms on the state-of-the-art AI infrastructure and utilize real-world data to gain skills that can be used the next day.

Key Skills Covered-

NumPy, Pandas, probability, anomaly detection, recommendation engines, regression, classification, data preprocessing, supervised learning, unsupervised learning, decision trees, Random Forests

Module **1**

Python

- Python Functions
- Libraries installation
- Overview Of Analytics
- Data Science Project Lifecycle
- Data Injection Methods
- Exploratory Data Analytics
- Data Frame Operations
- Python Pivot Tables
- Data Summarization
- Error Handling

IDE

- Anaconda
 - Jupyter Notebook
 - Version Management
 - Notebook Management
 - Shortcuts
 - Introduction to Kaggle
 - CLARITY – ML Data preparation tool
-

Module 2

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 3

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 Machine Learning Training

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