

TechnoMaster

Artificial Intelligence

Duration: 60 Hrs (Changeable) | Fees: Individual / Batch

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Syllabus Contd..

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+91 9895490866

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Syllabus

Module 1: Introduction to Data Science

- * What is Data Science?
- * What is Machine Learning?
- * What is Deep Learning?
- * What is AI?
- * Data Analytics & its types

Module 2: Introduction to Python

- * What is Python?
- * Why Python?
- * Installing Python
- * Python IDEs

Module 3: Python Basics

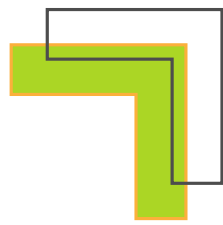
- * Python Basic Data types
- * Lists
- * Slicing
- * IF statements
- * Loops
- * Dictionaries
- * Tuples
- * Functions
- * Array
- * Selection by position & Labels

Module 4: Python Packages



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- * Pandas
- * Numpy
- * Sci-kit Learn
- * Mat-plot library

Module 5: Importing Data

- * Reading CSV files
- * Saving in Python data
- * Loading Python data objects
- * Writing data to csv file

Module 6: Manipulating Data

- * Selecting rows/observations
- * Rounding Number
- * Selecting columns/fields
- * Merging data
- * Data aggregation
- * Data munging techniques

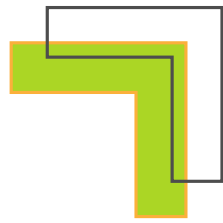
Module 7: Statistics Basics

- * Central Tendency
- * Probability Basics
- * Standard Deviation
- * Bias variance Trade off
- * Distance metrics



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- * Outlier analysis
- * Missing Value treatment
- * Correlation

Module 8: Error Metrics

- * Classification
- * Regression

Module 9: Machine Learning

- * Supervised Learning
- * Linear Regression
- * Logistic regression

Module 10: Unsupervised Learning

- * K-Means
- * K-Means ++
- * Hierarchical Clustering

Module 11: SVM

- * Support Vectors
- * Hyperplanes
- * 2-D Case
- * Linear Hyperplane

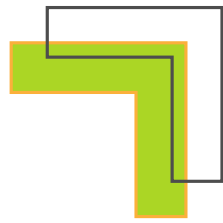
Module 12: SVM Kernel

- * Linear
- * Radial



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- * polynomial

Module 13: Other Machine Learning algorithms

- * K “ Nearest Neighbour
- * Naïve Bayes Classifier
- * Decision Tree “ CART
- * Decision Tree “ C50
- * Random Forest

Module 14: ARTIFICIAL INTELLIGENCE

- * Perceptron
- * Multi-Layer perceptron
- * Markov Decision Process
- * Logical Agent & First Order Logic
- * AL Applications

Module 15: Deep Learning Algorithms

- * CNN “ Convolutional Neural Network
- * RNN “ Recurrent Neural Network
- * ANN “ Artificial Neural Network

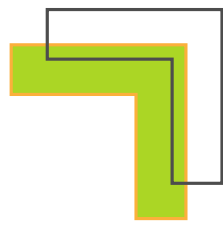
Module 16: Introduction to NLP

- * Text Pre-processing
- * Noise Removal
- * Lexicon Normalization
- * Lemmatization



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- * Stemming
- * Object Standardization

Module 17: Text to Features

- * Syntactical Parsing
- * Dependency Grammar
- * Part of Speech Tagging
- * Entity Parsing
- * Named Entity Recognition
- * Topic Modelling
- * N-Grams
- * TF & IDF
- * Frequency / Density Features
- * Word Embeddings

Module 18: Tasks of NLP

- * Text Classification
- * Text Matching
- * Levenshtein Distance
- * Phonetic Matching
- * Flexible String Matching