



# **Course: Artificial Intelligence**

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

Since 2007, Nestsoft TechnoMaster has been providing training, internships, and services in IT technologies, both online and offline, with the expertise of over 250 industry experts. We have delivered internships, training, and seminars to more than 50,000 students, resulting in numerous success stories. We offer 100% placement support through JobsNEAR.in

## **Our Courses/Internship**

- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, SalesForce, Sap
- Microsoft Excel
- Ethical Hacking



Syllabus on the Next Page ..



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### **Module 1: Introduction to Data Science**

- \* What is Data Science?
- \* What is Machine Learning?
- \* What is Deep Learning?
- \* What is AI?
- \* Data Analytics & it's 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**

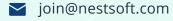
- \* Central Tendency
- \* Probability Basics
- Standard Deviation
- Bias variance Trade off
- \* Distance metrics

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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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## **Module 13: Other Machine Learning algorithms**

- \* K Nearest Neighbour
- \* NaÃ-ve 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**

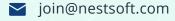
- \* Text Pre-processing
- \* Noise Removal
- \* Lexicon Normalization
- \* Lemmatization

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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 Embedding

### **Module 18: Tasks of NLP**

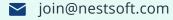
- \* Text Classification
- \* Text Matching
- \* Levenshtein Distance
- \* Phonetic Matching
- \* Flexible String Matching

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(Click on Course for more details)

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- Thank You -

N.B:This syllabus is not final and can be customized as per requirements / updates.

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