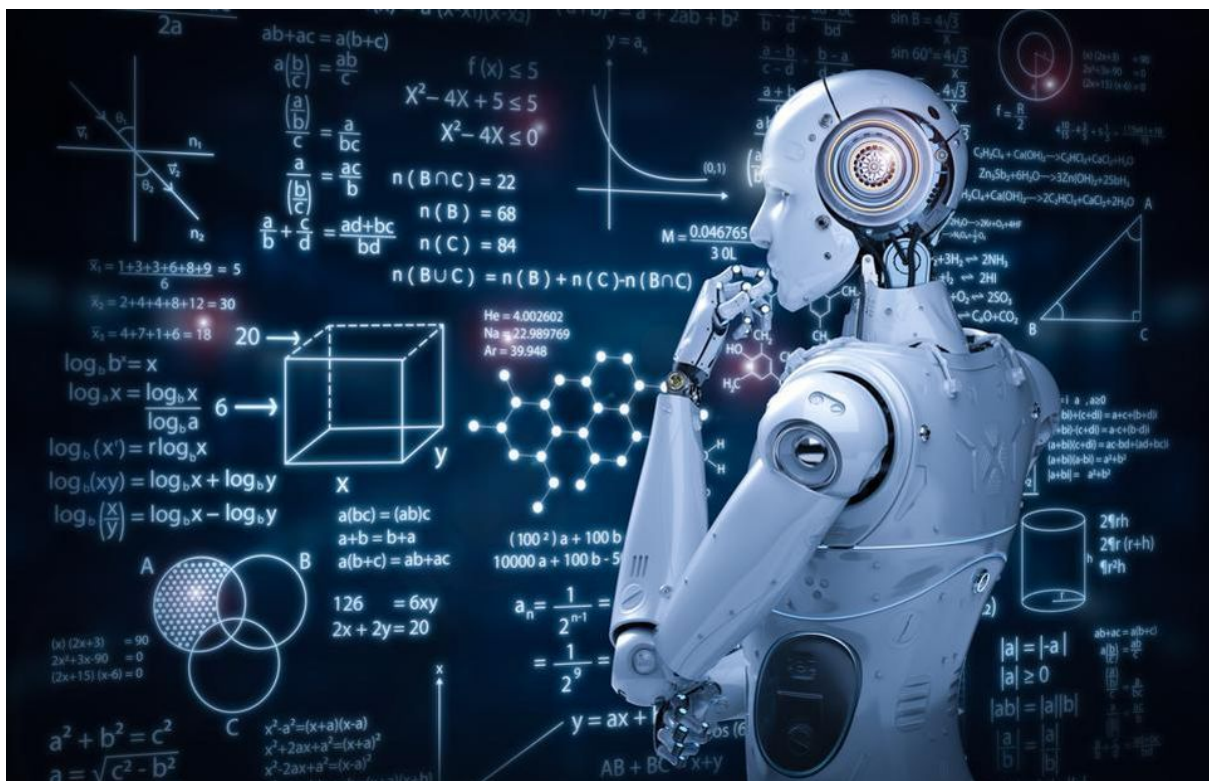


Masters in Machine Learning Online

Course Program:- An exciting branch of Artificial Intelligence, this Machine Learning certification online course will provide the skills you need to become a Machine Learning Engineer and unlock the power of this emerging field. Our Machine Learning course will help you master the skills required to become an expert in this domain. Master skills such as Python, ML algorithms, statistics, supervised and unsupervised learning, etc. to become a successful professional in this popular technology. Our Machine Learning certification training comes with 24/7 support, multiple assignments, and project work to help you gain real-world exposure. If you are willing to become a master in ML then let's explore the concepts of Machine Learning and understand how it's transforming the digital world.



Machine Learning Course Overview :-

We offer an in-depth overview of Machine Learning topics including working with real-time data, developing algorithms using supervised & unsupervised learning, regression, classification, and time series modeling in our Machine Learning online course.

- Acquire expertise with 25+ hands-on exercises

- Real-life industry projects with integrated labs
- Assigned & exclusive mentoring sessions from industry experts
- Instructor-led training with certification

Advantage:-

Market value of machine learning domain is to be expected to reach about \$8.81 Billion by 2022, as because its growth rate is 44.1-percent. The demand for machine learning engineers is going to be grown by 60% which is indicated by the increased adoption of Machine learning among companies.

Course Curriculum of Machine Learning(ML) :-

Prerequisites:- Requirement for this machine learning course is understanding of basic statistics and mathematics at the college level and familiar with python programing is also beneficial .One must understand the these fundamental courses including Python, for data science,Math refresher and statistic essential for data science before getting into machine learning

Suitable:-The online course of machine learning certification is very well suited for participants at the intermediate level including analytics manager, information architects, developers who are looking forward to becoming a data scientist , and graduates seeking a bright career in data science and machine learning.

Introduction to Machine Learning(ML)

Requirement of Machine Learning

Well Introduction to Machine Learning

Types of Machine Learning, such as supervised, unsupervised, and reinforcement learning, Machine Learning with Python, and the other applications of Machine Learning(ML)

Linear Regression & Supervised Learning

Will be Introduced to supervised learning and the other types of supervised learning, like regression and classification

Will be Introduced to regression

Simple linear regression

Multiple linear regression and assumptions in linear regression

Math behind linear regression

Hands-on Exercises:

Implementation of linear regression from scratch in Python

Using Python library Scikit-Learn to perform simple linear regression and multiple linear regression

Implementation of train–test split and predicting the values on the test set

Logistic Regression & Classification

Introduction to classification

Linear regression vs logistic regression(Difference)

Math behind logistic regression, detailed formulas, the logit function and odds, confusion matrix and accuracy, true positive rate, false positive rate, and threshold evaluation with ROCR

Hands-on Exercise:

Implementation of logistic regression from scratch with Python

Using Python library Scikit-Learn to perform simple logistic regression and multiple logistic regression

Building a confusion matrix to find out accuracy, true positive rate, and false positive rate.

Decision Tree and Random Forest

Introduction to tree-based classification

Understanding a decision tree, impurity function, entropy, and understanding the concept of information gain for the right split of node

Understanding the concepts of information gain, impurity function, Gini index, overfitting, pruning, pre-pruning, post-pruning, and cost-complexity pruning

Introduction to ensemble techniques, bagging, and random forests and finding out the right number of trees required in a random forest

Hands-on Exercises:

Implementing a decision tree from scratch in Python

Using Python library Scikit-Learn to build a decision tree and a random forest

Visualizing the tree and changing the hyper-parameters in the random forest

Support Vector Machine (self-paced) & Naïve Bayes

Introduction to probabilistic classifiers

Understanding Naïve Bayes and math behind the Bayes theorem

Understanding a support vector machine (SVM)

Kernel functions in SVM and math behind SVM

Hands-on Exercise:

Using Python library Scikit-Learn to build a Naïve Bayes classifier and a support vector classifier

Unsupervised Learning module

Types of unsupervised learning, such as clustering and dimensionality reduction, and the types of clustering

Introduction to k-means clustering

Math behind k-means

Dimensionality reduction with PCA

Hands-on Exercise:

Using Python library Scikit-Learn to implement k-means clustering

Implementing PCA (principal component analysis) on top of a dataset

Text Mining (self-paced) & Natural Language Processing

Introduction to Natural Language Processing (NLP)

Introduction to text mining

Importance and applications of text mining

How NLP works with text mining

Writing and reading to word files

Language Toolkit (NLTK) environment

Text mining: Its cleaning, pre-processing, and text classification

Hands-on Exercise:

Learning Natural Language Toolkit and NLTK Corpora

Reading and writing .txt files from/to a local drive

Reading and writing .docx files from/to a local drive

Deep Learning Introduction

Introduction to Deep Learning with neural networks

Biological neural networks vs artificial neural networks

Understand the perception learning algorithm, introduction to Deep Learning frameworks, and TensorFlow constants, variables, and place-holders

Time Series Analysis (self-paced)

What is a time series? Its techniques and applications

Time series components

Moving average, smoothing techniques, and exponential smoothing

Univariate time series models

Multivariate time series analysis

ARIMA model and time series in Python

Sentiment analysis in Python (Twitter sentiment analysis) and text analysis

Hands-on Exercise:

Analyzing time series data

The sequence of measurements that follow a non-random order to recognize the nature of the phenomenon

Forecasting the future values in the series

Machine Learning Certification

During this ML program, you will be engaged in various projects and assignments, which include real-world industry scenarios. Which will be very helpful to you and you can expedite your career effortlessly. You would be glad to know that our certification training is recognized all around the world.

FYI -We can also put picture of our certificate like down:-

CERTIFICATE OF COMPLETION

This Certificate Is Presented To

Your Name

Who has successfully completed all the requirements stipulated by Intellipaat for

Course Name

to achieve professional excellence

Issue Date: January 2, 2020

VERIFIED
CERTIFICATE

Certificate ID 31679-119525-18232

Why Professionals want to join:-



- ✓ **Industry Mentors**
 - Receive unparalleled guidance from industry mentors, teaching assistants, and graders
 - Receive one-on-one feedback on submissions and personalised feedback for improvement
- ✓ **Student Success Mentors**
 - A dedicated Success Mentors is allocated to each student so as to ensure consistent progress
 - Success Mentors are your single points of contact for all your non-academic queries

How we prepare you



Resume and LinkedIn Review Sessions



Unlimited Mock Interview and Quiz Session



Hands-on experience in a live project



Offline Hiring Events

Machine Learning Course FAQs

Why should I learn Machine Learning

We provide comprehensive teaching in Machine Learning through hands-on projects and case studies. A few of the many reasons for choosing Intellipaat ML training course includes the following:

1. You will learn various concepts such as ML using Python, classification techniques, linear algebra behind linear regression along with logistic regression, supervised and unsupervised learning, and more.
2. After successfully completing the lectures, you will be awarded a certificate, which holds merit in all around the world.
3. We provide lifetime access to videos, resources and their free upgrades to the latest version, and 24/7 learning support.

What if I miss a class?

If in any case you end up missing a class, then you can contact our support team. Our team will further assist you in scheduling another class for the same topic so that you can catch up with the rest.

Also, all the sessions are recorded and shared with all participants in the LMS (Learning Management system). You can also refer to these recorded sessions for the missed class.

How will the labs be conducted?

We offer the facility of integrated labs that act as a platform for you to execute our industry-based projects. You will be guided through the steps so that you can easily deploy all the necessary tools and further execute the hands-on exercises successfully

Who provides the certificate and how long is it valid for?

After completing this certification training, you will be awarded the certificate from us, which is valid for a lifetime.

Do You offer job assistance?

We actively provide placement assistance to all learners who have successfully completed the training. For this, we are exclusively tied-up with many MNCs from around the world. We also help you with the job interview and résumé preparation as well.

What exactly is Machine Learning?

Machine Learning is basically the process to collect real-world data, collect useful information from it, and then take actions to perform certain tasks without manual programming. It helps systems improve over time on their own by exploring various types of real-world data which also allows organizations to improve their business strategies by knowing the insights that are extracted from the given business data.

How is the instructor selected ?

We select instructors who are top SMEs in the industry with a minimum of 8 to 12 years of experience in the field of Machine Learning. They are all extremely qualified trainers in the field of Machine Learning and Artificial Intelligence. They are selected after going through a rigorous process, where they are tested for their domain knowledge and training ability.

