



CERTIFICATE PROGRAM

Course on Machine Learning

75+ Hours of Training | 7+ Projects | Online Course

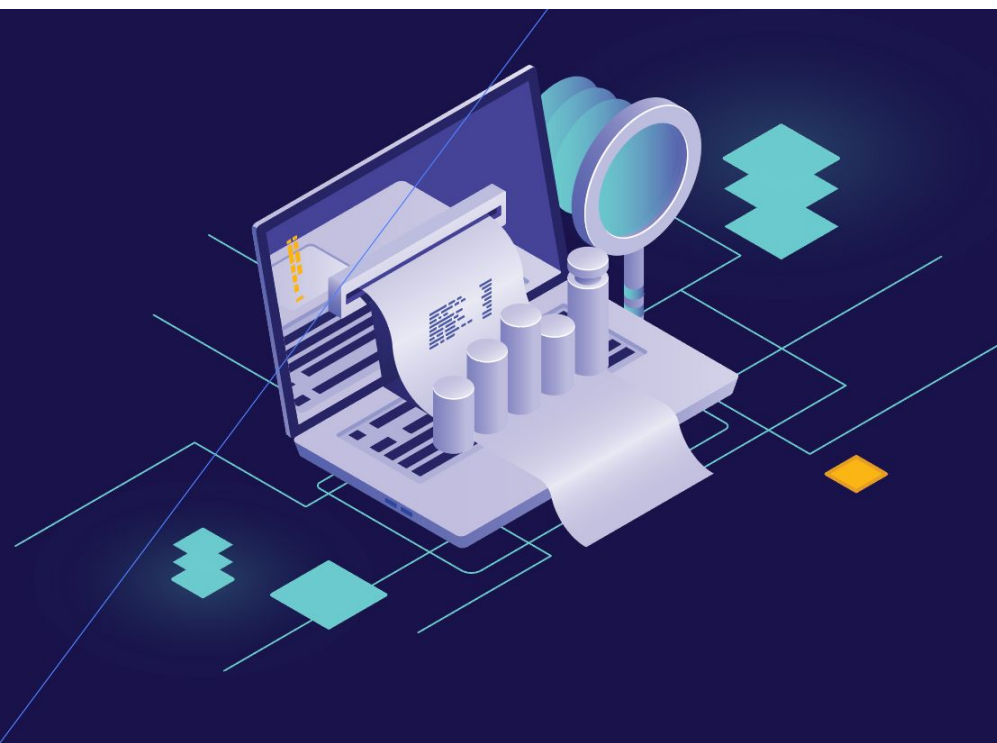


CloudxLab & Course

At Cloudxlab, we are building one of the best gamified learning environments to make technology learning fun and for life. More than 50,000 users across the world have been benefited by our signature courses on Machine Learning and Big Data. Our vision is to upskill people on high-end technologies like Deep Learning, Machine Learning, Big Data and make them employable.

Every domain of computing such as data analysis, software engineering, and artificial intelligence is going to be impacted by Machine Learning. Therefore, every engineer, researcher, manager or scientist would be expected to know Machine Learning.

So naturally, you are excited about Machine learning and would love to dive into it. This course is designed for those who want to gain hands-on experience in solving real-life problems using machine learning. After finishing this specialization, you will find creative ways to apply your learning to your work.



Sandeep Giri

Founder at CloudxLab

Why CloudxLab



Earn a Verified Certificate from CloudxLab



Learn Machine Learning from industry experts and become expert in Machine Learning domain



Online cloud lab for hands-on for real-world experience



Best-in-class support Throughout your learning journey



Lifetime course access



Work on real-world projects.



Interact with the international community of peers via the discussion forum.

Course Creators



Sandeep Giri

Founder at CloudxLab

Past: Amazon, InMobi, D.E.Shaw

Course Developer

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Abhinav Singh

Co-Founder at CloudxLab

Past: Byjus

Course Developer

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Jatin Shah

Ex-LinkedIn, Yahoo,

Yale CS Ph.D. IIT-B

Course Advisor

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Praveen Pavithran

Co-Founder at Yatis

Past: YourCabs, Cypress Semiconductor

Course Advisor

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Course Curriculum

Course 1: Python For Machine Learning

- Introduction to Linux
- Introduction to Python
- Hands-on using Jupyter on CloudxLab
- Overview of Linear Algebra
- Introduction to NumPy & Pandas

Course Curriculum

Course 2: Machine Learning

1. Introduction to Statistic

Statistical Inference, Types of Variables, Probability Distribution, Normality, Measures of Central Tendencies, Normal Distribution

2. Machine Learning Applications & Landscape

Introduction to Machine Learning, Machine Learning Application, Introduction to AI, Different types of Machine Learning - Supervised, Unsupervised, Reinforcement

3. Building end-to-end Machine Learning Project

Machine Learning Projects Checklist, Frame the problem and look at the big picture, Get the data, Explore the data to gain insights, Prepare the data for Machine Learning algorithms, Explore many different models and short-list the best ones, Fine-tune model, Present the solution, Launch, monitor, and maintain the system

4. Classifications

Training a Binary classification, Performance Measures, Confusion Matrix, Precision and Recall, Precision/Recall Tradeoff, The ROC Curve, Multiclass Classification, Multilabel Classification, Multioutput Classification

5. Training Models

Linear Regression, Gradient Descent, Polynomial Regression, Learning Curves, Regularized Linear Models, Logistic Regression

6. Support Vector Machines

Linear SVM Classification, Nonlinear SVM Classification, SVM Regression

Course Curriculum ---

Course 2: Machine Learning

7. Decision Trees

Training and Visualizing a Decision Tree, Making Predictions, Estimating Class Probabilities, The CART Training Algorithm, Gini Impurity or Entropy, Regularization Hyperparameters, Regression, Instability

8. Ensemble Learning and Random Forests

Voting Classifiers, Bagging and Pasting, Random Patches and Random Subspaces, Random Forests, Boosting, Stacking

9. Dimensionality Reduction

The Curse of Dimensionality, Main Approaches for Dimensionality Reduction, PCA, Kernel PCA, LLE, Other Dimensionality Reduction Techniques

Projects

- **Analyze Emails**

Churn the mail activity from various individuals in an open source project development team.

- **Predict bikes rental demand**

Build a model to predict the bikes demand given the past data.

- **Noise removal from the images**

Build a model that takes a noisy image as an input and outputs the clean image.

- **Predict which passengers survived in the Titanic shipwreck**

The sinking of the RMS Titanic is one of the most infamous shipwrecks in history. In this project, you build a model to predict which passengers survived the tragedy.

- **Build a spam classifier**

Build a model to classify emails as spam or ham using NLTK, and scikit-learn.

- **Build an Image Classifier in Fashion MNIST dataset**

Classify images from the Fashion MNIST dataset using scikit-learn, and Python.

- **Deploy Machine Learning models to Production using Flask**

Learn how to deploy a machine learning model as a web application using the Flask framework.

Course Details and Fees —

Please find more information about the course and fees here:

<https://cloudxlab.com/course/15/machine-learning>

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