



CERTIFICATE PROGRAM

Natural Language Processing Specialization

70+ Hours of Training | 5+ 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 Natural Language Processing, 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 these technologies..



Sandeep Giri

Founder at CloudxLab

Why CloudxLab



Earn a Verified Certificate from CloudxLab



Learn Natural Language Processing from industry experts and become expert in Deep 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: NLP

1. Introduction to Artificial Neural Networks

From Biological to Artificial Neurons, Implementing MLPs using Keras with TensorFlow Backend, Fine-Tuning Neural Network Hyperparameters

2. Training Deep Neural Networks

The Vanishing / Exploding Gradients Problems, Reusing Pretrained Layers, using Faster Optimizers, Avoiding Overfitting Through Regularization, Practical Guidelines to Train Deep Neural Networks

3. Convolutional Neural Networks

The Architecture of the Visual Cortex, Convolutional Layer, Pooling Layer, CNN Architectures, Classification with Keras, Transfer Learning with Keras, Object Detection, YOLO

4. Recurrent Neural Networks

Recurrent Neurons and Layers, Basic RNNs in TensorFlow, Training RNNs, Deep RNNs, Forecasting a Time Series, LSTM Cell, GRU Cell

5. Natural Language Processing

Introduction to Natural Language Processing, Creating a Quiz Using TextBlob, Finding Related Posts with scikit-learn, Generating Shakespearean Text Using Character RNN, Sentiment Analysis, Encoder-Decoder Network for Neural Machine Translation, Attention Mechanisms, Recent Innovations in Language Models

Projects

- **Analyze Emails**

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

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

Classify images from the Fashion MNIST dataset using Tensorflow 2, Matplotlib, and Python

- **Training from Scratch vs Transfer Learning**

Learn how to train a neural network from scratch to classify data using TensorFlow 2, and how to use the weights of an already trained model to achieve classification to another set of data..

- **NYSE Stock Closing Price Prediction using TensorFlow 2 & Keras**

Predict stock market closing prices for a firm using GRU, a state-of-art deep learning algorithm for sequential data, with Keras and Python.

- **Sentiment Analysis using IMDB dataset**

Create a sentiment analysis model with the IMDB dataset using TensorFlow 2.

Course Details and Fees —

Please find more information about the course and fees here:

<https://cloudxlab.com/course/102/NLP-Specialization>

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