



**Deep
Learning**



Deep Learning Training

About Cognixia

Cognixia, formerly known as Collabera TACT, is a Collabera Learning Solutions Company.

Being a consistently awarded Digital Technology Training Company, we bring you the best quality technology courses and certifications. With our in-house incubators on Digital technologies like IoT, Cyber Security, Machine Learning, AI & Deep Learning, Blockchain, Cloud, DevOps & other domains, Cognixia can help in transforming your workforce and partner with you in your Digital transformation strategy.

Since 2014, we have trained and up-skilled over 100,000 people across 37 countries. With 1300+ experienced trainers, 250+ courses, state-of-the-art infrastructure, we bring you the best learning experience.

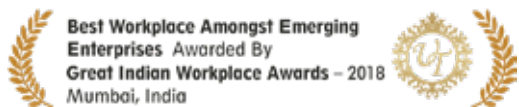
Cognixia provides multiple learning models – Public batches as well as custom built private batches for individuals as well as corporates. Our training delivery models are Instructor led online trainings, Classroom trainings and On-demand self-paced digital trainings.

Cognixia has been recognized as the Best training provider in Digital technologies like Big Data, IoT, Cloud Computing and DevOps. We are ranked amongst Top 5 emerging technologies training companies, and have been awarded as the Best Training Company by various prestigious bodies.

Cognixia is a MAPR Advantage Partner, Hortonworks Community Partner, RedHat Enterprise Partner, Microsoft Silver Learning Partner and an Authorised Training Partner with DELL EMC, Pivotal, VMware, RSA Technologies and Automation Anywhere.



OUR AWARDS & AFFILIATIONS



SOME FORMIDABLE NAMES AS OUR TRAINING PARTNERS



Silver
Microsoft
Partner



DETAILED CURRICULUM : MODULES

The Audience

- Software developers and programmers keen to build a career in Data Science and Machine Learning
- Data analysts or financial analysts from a non-IT industry keen to transition into the IT industry
- Individuals, students and corporate professionals wanting to update their skills

Course Curriculum

Deep Learning Introduction:

- What is deep learning and how it is different from Machine Learning
- Deep Learning - Use cases
- Packages & Libraries available for implementing Deep learning
- Where does Deep Learning fit into Data Science Ecosystem
- Quick Review of Machine Learning

Neural Networks with Tensor Flow

- How Deep Learning Works?
- Activation Functions
- Illustrate Perceptron
- Training a Perceptron
- Important Parameters of Perceptron
- What is Tensorflow?
- Tensorflow code basics
- Graph Visualization
- Constants, Placeholders, Variables
- Creating a Model
- Step-by-step - Use case implementation

DETAILED CURRICULUM : MODULES

Neural Networks with Tensor Flow - Advanced

- Understand limitations of A Single Perceptron
- Understand Neural Networks in Detail
- Illustrate Multi-Layer Perceptron
- Backpropagation – Learning Algorithm
- Understand Backpropagation – Using Neural Network Example
- MLP Digit-Classifer using TensorFlow
- TensorBoard
- Summary

Python libraries for DataScience

- Installation & setup Python IDE - Anaconda
- NumPy
- SciPy
- Pandas,
- Matplotlib
- SciKit-Learn
- NLTK

Convolutional Neural Networks (CNN)

- Introduction to CNNs
- CNNs Application
- Architecture of a CNN
- Convolution and Pooling layers in a CNN
- Understanding and Visualizing a CNN
- Transfer Learning and Fine-tuning Convolutional Neural Networks

DETAILED CURRICULUM : MODULES

Recurrent Neural Network (RNN)

- Intro to RNN Model
- Application use cases of RNN
- Modelling sequences
- Training RNNs with Backpropagation
- Long Short-Term memory (LSTM)
- Recursive Neural Tensor Network Theory
- Recurrent Neural Network Model

RBM and Autoencoders

- Restricted Boltzmann Machine
- Applications of RBM
- Collaborative Filtering with RBM
- Introduction to Autoencoders
- Autoencoders applications
- Understanding Autoencoders

Keras & Tflern

- Define Keras
- How to compose Models in Keras
- Sequential Composition
- Functional Composition
- Predefined Neural Network Layers
- What is Batch Normalization
- Saving and Loading a model with Keras
- Customizing the Training Process

DETAILED CURRICULUM : MODULES

- Using TensorBoard with Keras
- Use-Case Implementation with Keras
- Define TF Learn
- Composing Models in TFLearn
- Sequential Composition
- Functional Composition
- Pre-defined Neural Network Layers
- What is Batch Normalization
- Saving and Loading a model with TFLearn
- Customizing the Training Process
- Using TensorBoard with TFLearn
- Use-Case Implementation with TFLearn

Sample Capstone Project

Cloud – Deep Learning with Amazon Web Service:

- Deep Learning AMIs
- Image Rekognition API
- Common practice to setup Deep Learning projects on the cloud

COGNIXIA'S KEY DIFFERENTIATORS



LIFETIME LMS ACCESS



24 x 7 SUPPORT



REAL-LIFE PROJECTS & CASE STUDIES



INDUSTRY EXPERTS AS TRAINERS



REAL-TIME CLOCK MODULE



EXIT PROFILE

DATA SCIENTIST

DATA ARCHITECT



TESTIMONIALS



VIJAY KUMAR GUPTA, BANGALORE, INDIA

I would really like to thank the Cognixia trainer for providing this training on Hadoop ecosystem focusing on the concepts and their implementation practically. Every time I go through the session recordings , I am able to understand it even better. The good part is the way he explained the concepts with such simplicity and not using any difficult to understand vocabulary, which made it very easy to understand, especially for beginners like me.



RENUKA PATEL, HYDERABAD, INDIA

It was a great initiative from Cognixia to offer training in Big Data. It was indeed a great experience for me. The training was interactive & had lot of practical aspects covered in it. I really enjoyed learning a new technology. Thanks Cognixia team for all your support & help.”



KRITI KRISHNA, MUMBAI, INDIA

I was always fascinated with new upcoming technologies. Through my research on the Internet, i came to know about the Big Data Hadoop Technology. I discovered Cognixia then, inquired about the details and gosh!!! Guess what? I got trained by an industry expert on being a Big Data Hadoop Developer.



RICHARD ROMO, NY, USA

I would like to say thanks to Cognixia for conducting the training on Big Data Hadoop Developer, and the quality of training is awesome. I got good knowledge on the hadoop development and the other components of hadoop like Hive, Pig, Hbase, Oozie, Sqoop and many more. It was awesome experience for me.



KRITI KRISHNA, MUMBAI

The training module that Cognixia possesses is excellent! Praveed Sripati's (the trainer) name was enough for me to get enrolled for the training on Big Data Hadoop technology. I had been following his blogs and to interact with him as part of this training was a superb experience.



OLIVER THOMSON, EDINBURGH, UNITED KINGDOM

The state-of-the-art infrastructure and access to the same as part of my training with Cognixia gave me a better understanding and hands-on experience on the practical part of the Big Data technology.

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To learn more visit
<https://www.cognixia.com/>