


**Introduction To Deep Learning**

**Computer Visualization Using Opencv**

**RNN**

**RCNN**

**GAN**

**Transfer Learning**
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[Career Opportunity](#)

## Neural Networks and Deep Learning

### Neural Networks and Deep Learning Course

Do you want to delve deeper into the fascinating realm of Neural Networks and Deep Learning? BITA Academy is pleased to provide the best Neural Networks and Deep Learning Course, designed to equip you with the knowledge and abilities required to grasp this cutting-edge subject.

#### What is a Neural Network?

A neural network is a computational model inspired by the structure and operation of the human brain in the context of artificial intelligence and machine learning. It is a crucial component of deep understanding, a machine learning subfield. A neural network is made up of interconnected processing units called artificial neurons or nodes that are grouped into layers.

#### Roles and Responsibilities in Neural Network

##### Deep Learning Engineer

Creating, training, and optimizing neural network models. Model optimization for performance, speed, and resource utilization. Data pretreatment, augmentation, and feature engineering are all handled. Defining machine learning objectives in collaboration with data scientists and domain specialists. Managing and managing the lifecycle of the model, including versioning and deployment.

##### Research Scientist

Developing new machine learning algorithms and models through study. Keeping up with the latest developments in neural networks and deep learning. Attending conferences and publishing scholarly papers. Providing guidance on the suitable neural network topologies for specific jobs. Working with engineers to develop and test new algorithms.

##### AI/ML Project Manager:

Supervising machine learning project planning and implementation. Keeping track of project deadlines, resources, and budgets. Stakeholders are kept informed of project progress and outcomes. Project risk identification and mitigation. Ensure the team adheres to best practices in machine learning and neural network development.

These roles frequently work in interdisciplinary teams to design and deploy neural network models effectively. Depending on the size and structure of the business, certain personnel may wear numerous hats, covering a combination of these functions. The success of neural network projects is dependent on effective communication and teamwork.

#### Syllabus of Neural Network and Deep Learning

- Recap Of Neural Networks In General
- Introduction To Deep Learning
- Single Layer Perceptron
- Tensorflow Code Basics Demo
- Multi Layer Perceptron Using Mnist
- Tensor Flow Code Demo 2
- Cnn – Full – Code With Data Set
- Binary Classification Using Keras
- Mnist With Keras
- Computer Visualization Using Opencv
- Cats And Dogs Classification
- Trained Model Cats And Dogs
- Rnn
- Word Prediction Using Rnn
- Image Captioning Using Lstm – Demo
- Text Generation Using Rnn
- Regional Convolutional Neural Network (Rcnn)
- Object Detection Using Mask Rcnnc
- Boltzmann Machine And Auto-Encoders
- Autoencoder Using Keras
- Generative Adversarial Network (Gan)
- Emotion And Gender Detection Using Cnn (Age And Gender Detection Using Cnn) – Part Of Open Cv
- Transfer Learning

#### Neural Network Certification Training

In today's quickly changing technological scene, there is a high demand for experts proficient in neural networks and deep learning courses. The ability to build, implement, and deploy neural network models is becoming increasingly valuable in various businesses. If you want to advance your profession and become an expert in this sector, Neural Network Certification Training is the way to go. Neural Network Certification Training offers comprehensive education and hands-on experience in the exciting world of deep learning. Enrol in BITA Academy's neural networks and deep learning course to secure your credential.

- Deep Learning Specialization
- TensorFlow Developer Certificate
- Machine Learning Specialization
- Deep Learning Nanodegree

#### Job opportunities in Neural Network

As a result of the growing demand for artificial intelligence (AI) and machine learning (ML) knowledge, job opportunities in the field of neural networks and deep learning are available and developing rapidly. Neural networks are an essential component of AI and machine learning, and professionals with expertise in this area are in great demand across multiple industries. Sign up for the Neural Networks and Deep Learning Course.

- Machine Learning Engineer
- Deep Learning Engineer
- Computer Vision Engineer
- Natural Language Processing (NLP) Engineer
- AI Research Scientist
- AI Consultant
- Robotics Engineer

#### Why should you select us?

- After completing the Neural Networks and Deep Learning Course, you will build, implement, and deploy neural network models.
- We offer Neural Network and Deep Learning Courses for Professionals and students who want to start their careers in AI and Data Science.
- Our trainer's teaching skill is excellent, and they are very polite when clearing doubts.
- We conduct mock tests that will be useful for your Deep-learning Interview Preparation.
- Even after completing your Neural Networks and Deep Learning Course, you will get lifetime support from us.
- We know the IT market and our Deep Learning Content aligns with the latest trends.
- We provide classroom training with all essential preventative precautions.
- We provide Neural Networks Online training on live meetings with recordings.

## Related Courses

**PyTorch**

Learn from expert. Book for free demo session.

Duration: 40 hrs      Rating: ★★★★★

**Microstrategy**

Real Time Microstrategy Training for Professionals who wants to be an BI expert. Enroll for free demo session now.

Duration: 40 Hours      Rating: ★★★★★

**Ab Initio**

Hands On Ab Initio Training from Industry Experts. Enroll now for free demo session.

Duration: 40 Hours      Rating: ★★★★★

<p><b>Courses</b></p> <ul style="list-style-type: none"> <li><a href="#">Data Science</a></li> <li><a href="#">Python</a></li> <li><a href="#">General</a></li> </ul>	<p><b>Blog</b></p> <ul style="list-style-type: none"> <li><a href="#">Data Science</a></li> <li><a href="#">Python</a></li> <li><a href="#">General</a></li> </ul>	<p><b>Quick Links</b></p> <ul style="list-style-type: none"> <li><a href="#">About Us</a></li> <li><a href="#">Student Success</a></li> <li><a href="#">Careers</a></li> <li><a href="#">Contact</a></li> </ul>
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BITA – Best IT Academy is a leading IT training hub driven by IT professionals. We offer a competent platform to enable powerful and positive transformation in IT for better career opportunity and advancement.

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