शासकीय कंप्यूटर प्रशिक्षण बोर्ड

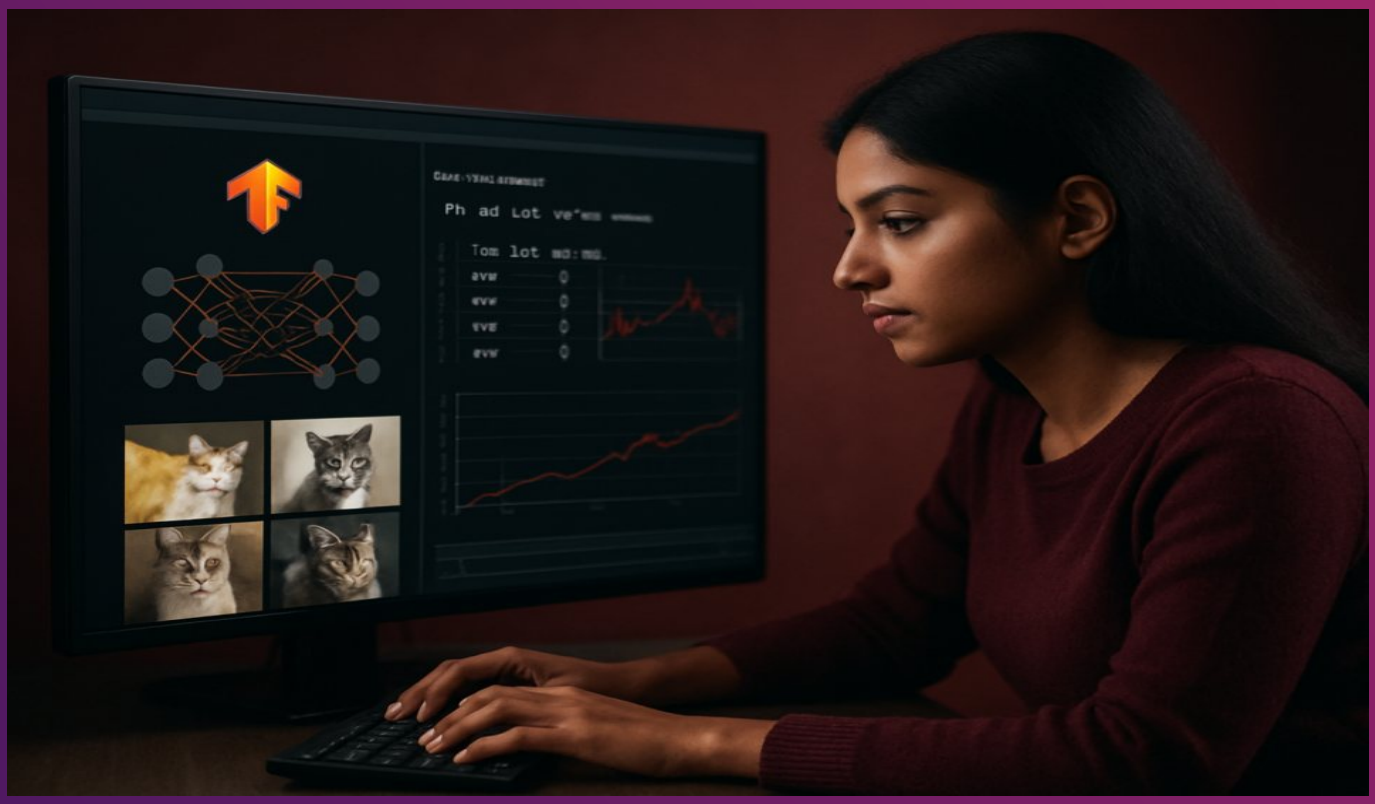
Shaskiya Computer Training Board

(Run By GSIDC Nagpur)

CERTIFICATE COURSE | IT & TECHNOLOGY SECTOR

Deep Learning

Build a foundation in deep learning concepts, tools and practical projects.



DURATION	ELIGIBILITY	SUBJECTS	CERTIFICATE
6 Months	12th Pass	6	SCT Board

sctboard.in

About the Program

This six-month course introduces deep learning, a part of artificial intelligence that uses neural networks to learn from data. Students study neural network fundamentals and gain an introduction to TensorFlow and Keras. The course also covers image recognition and natural language processing, helping learners understand how these techniques are used in different computing tasks.

Learning includes guided topics and a deep learning project to help students connect concepts with practical work. Learners explore how data is used to train models and how results can be checked. A basic understanding of computers is helpful. Course delivery, learning materials and assessment arrangements may depend on the authorised study centre.

01

6 Subjects
All important topics of the course together

6 Months Total
Practical lab training along with theory

02

03

12th Pass
Minimum eligibility

Online Exam
Online exam and result at the end of the course

04

05

Board Certificate
Marksheet and certificate, online verification

Who is this course for?

- 12th pass students
- Computing learners
- Aspiring AI learners
- Working professionals

Program Highlights

01
Deep Learning Basics
Learn core concepts behind deep learning and neural networks.

02
Neural Network Concepts
Explore network structure, layers, training and model evaluation.

03
TensorFlow and Keras
Get introduced to widely used deep learning tools.

04
Image Recognition
Study techniques for identifying patterns and objects in images.

05
Language Processing
Learn basic ways computers process and work with text.

06
Course Project
Apply course concepts through a guided deep learning project.

Program Curriculum

Deep Learning · 6 Months · 6 Subjects

MODULE 01

Module 1: Introduction to Deep Learning
Subject Code: DL101 | Theory | Marks (Pass/Max): Theory 35/100
- » Artificial intelligence overview
- » Deep learning concepts
- » Data and models
- » Common applications

MODULE 02

Module 2: Neural Networks Fundamentals
Subject Code: DL102 | Theory | Marks (Pass/Max): Theory 35/100
- » Neurons and layers
- » Activation functions
- » Training and loss
- » Model evaluation

MODULE 03

Module 3: TensorFlow & Keras
Subject Code: DL103 | Theory | Marks (Pass/Max): Theory 35/100
- » TensorFlow basics
- » Keras model structure
- » Building simple models
- » Training and testing

MODULE 04

Module 4: Image Recognition Techniques
Subject Code: DL104 | Theory | Marks (Pass/Max): Theory 35/100
- » Image data preparation
- » Image classification
- » Convolutional neural networks
- » Model performance

MODULE 05

Module 5: Natural Language Processing Basics

Subject Code: DL105 | Theory | Marks (Pass/Max): Theory 35/100

- » Text preparation
- » Tokenisation basics
- » Text classification
- » Language model concepts

MODULE 06

Module 6: Deep Learning Project

Subject Code: DL106 | Theory | Marks (Pass/Max): Theory 35/100

- » Problem selection
- » Data preparation
- » Model building
- » Testing and presentation

Skills & Tools

You will work hands-on with these during the course.

Neural Networks	**Data Preparation**	**TensorFlow**	**Keras**
Image Classification	**Text Processing**	**Model Evaluation**	**Project Work**

Career Opportunities

After the course you can work in these fields.

AI Support Assistant
Supports AI teams with data preparation and basic model tasks.

Machine Learning Assistant
Assists with experiments and model testing in technology teams.

Data Labelling Associate
Prepares and labels datasets for AI projects.

Image Data Associate
Helps organise image data for computer vision projects.

NLP Support Associate
Assists with text data preparation for language technology projects.

AI Project Trainee
Supports project activities in software firms or AI teams.

Get Certified

After completing the course and passing the online exam, the Shaskiya Computer Training Board marksheet and certificate are given, which are verified on the website with a QR code.



FAQs

What is the eligibility for this course?
The suggested minimum qualification is 12th Pass. Ask an authorised SCT Board study centre about any additional entry requirements.

How long is the course?
The course duration is six months. The study schedule may be confirmed with your authorised study centre.

What is the mode of study?
Study mode and class schedule may vary by centre. Contact an authorised SCT Board study centre for details before enrolling.

How is the course exam conducted?
Assessment arrangements and exam details are provided by the study centre. Please confirm the applicable process and schedule before admission.

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LET'S TALK

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For admission: sctboard.in/addmission-form