शासकीय कंप्यूटर प्रशिक्षण बोर्ड

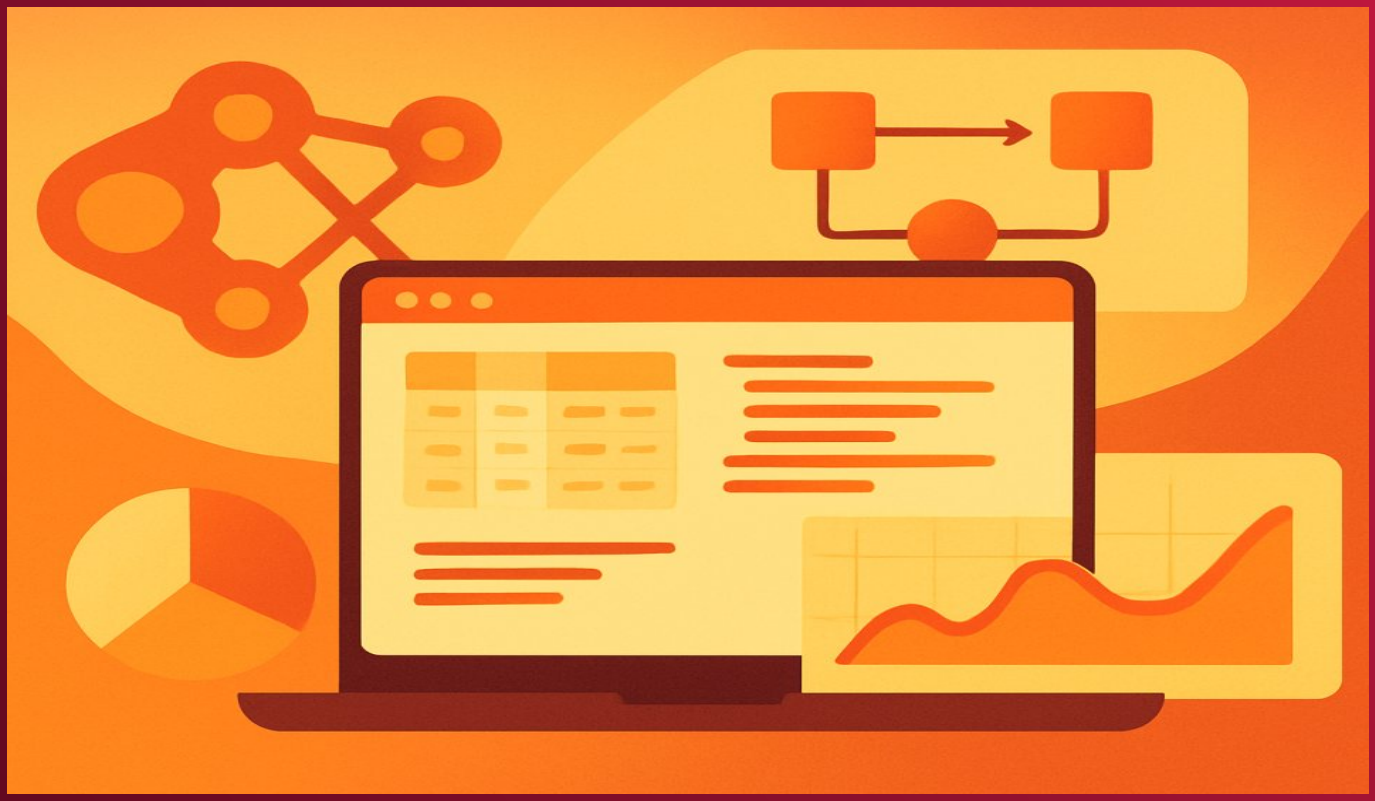
Shaskiya Computer Training Board

(Run By GSIDC Nagpur)

DIPLOMA COURSE | IT & TECHNOLOGY SECTOR

Artificial Intelligence & Machine Learning

Build practical foundations in AI, machine learning, Python and data analysis.



DURATION	ELIGIBILITY	SUBJECTS	CERTIFICATE
1 Year	12th Pass	6	SCT Board

sctboard.in

About the Program

This one-year course introduces students to Artificial Intelligence and Machine Learning concepts and their practical uses. Learners study Python programming, data analysis, statistics, machine learning algorithms and deep learning fundamentals. The course also includes an AI project and case study, helping students connect concepts with examples and practise explaining their approach.

The course is intended for learners who want a structured introduction to AI and related technologies. Topics are studied step by step, with attention to programming, working with data and understanding how models are used. Course delivery, learning resources and assessment arrangements may vary by study centre, so check the details before applying.

01 **6 Subjects**
All important topics of the course together

1 Year 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
- Aspiring data learners
- Python beginners
- Working professionals exploring AI

Program Highlights

01
One-Year Course
Study core AI and machine learning topics over a one-year course.

02
Python for AI
Learn Python concepts used in programming tasks for AI.

03
Work with Data
Explore data analysis and statistics used to understand datasets.

04
Machine Learning
Study common algorithms and the ideas behind model training.

05
Deep Learning Basics
Get an introduction to deep learning concepts and applications.

06
Project and Case Study
Apply course concepts through an AI project and case study.

Program Curriculum

Artificial Intelligence & Machine Learning · 1 Year · 6 Subjects

MODULE 01

Module 1: Introduction to Artificial Intelligence
Subject Code: AIML101 | Theory | Marks (Pass/Max): Theory 35/100
- AI concepts and terminology
- Types of AI
- AI applications
- Ethics and responsible use

MODULE 02

Module 2: Python Programming for AI
Subject Code: AIML102 | Theory | Marks (Pass/Max): Theory 35/100
- Python syntax and data types
- Conditions and loops
- Functions and modules
- Working with libraries

MODULE 03

Module 3: Machine Learning Algorithms
Subject Code: AIML103 | Theory | Marks (Pass/Max): Theory 35/100
- Supervised learning
- Unsupervised learning
- Model training and testing
- Evaluating model performance

MODULE 04

Module 4: Data Analysis & Statistics
Subject Code: AIML104 | Theory | Marks (Pass/Max): Theory 35/100
- Data types and collection
- Data cleaning
- Descriptive statistics
- Charts and data interpretation

MODULE 05

Module 5: Deep Learning Fundamentals

Subject Code: AIML105 | Theory | Marks (Pass/Max): Theory 35/100

- » Neural network concepts
- » Layers and activation functions
- » Training basics
- » Deep learning applications

MODULE 06

Module 6: AI Project & Case Study

Subject Code: AIML106 | Theory | Marks (Pass/Max): Theory 35/100

- » Problem definition
- » Data preparation
- » Model selection
- » Project presentation

Skills & Tools

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

Python	**NumPy**	**Pandas**	**Matplotlib**
Scikit-learn	**TensorFlow**	**Data cleaning**	**Statistical analysis**

Career Opportunities

After the course you can work in these fields.

Junior Data Analyst
May work with data teams in businesses, service firms or research settings.

Python Trainee
May assist development teams at software companies or technology service firms.

Machine Learning Assistant
May support project teams in technology firms or data-focused organisations.

AI Support Associate
May help with AI-related tasks in technology services or business teams.

Data Processing Assistant
May organise and check data in companies, institutions or research teams.

AI Project Trainee
May contribute to supervised projects at training, research or technology organisations.

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 minimum qualification for admission?
The minimum qualification is 12th Pass. Contact an SCT Board authorised study centre to confirm any applicable document or admission requirements.

How long is the course?
The course duration is one year. Check with the authorised study centre for the academic schedule and any centre-specific details.

What is the mode of study?
Study mode and learning arrangements can vary by centre. Contact an SCT Board authorised study centre to confirm available options before applying.

How is the examination conducted?
The exam and assessment arrangements are shared by the Board or authorised study centre. Ask the centre for the current schedule and assessment details.

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LET'S TALK

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For admission: sctboard.in/addmission-form