ISDM Independent Skill Development Mission NXT

EMPOWERING FUTURES,
SHAPING TOMORROW

★ AI-INTEGRATED COURSE

# NXT CERTIFIED MACHINE LEARNING PROGRAM

## Launch your career in Data Science with Machine Learning!

**Duration:** 3 Month | **Certificate** · Intermediate | **Eligibility:** Basic understanding of programming and statistics. A backgro

### OVERVIEW OF THE COURSE

The Nxt Certified Machine Learning Program is a comprehensive 3-month course designed to equip participants with the essential skills and knowledge in machine learning. The program covers various aspects of machine learning, including supervised and unsupervised learning, deep learning, and practical applications in real-world s...

- Hands-on experience with real-world projects
- Expert mentorship throughout the program
- Learn popular ML frameworks and tools
- Focus on ethical AI practices
- Capstone project for practical application




**3 Month** DURATION

**8** SUBJECTS

**4** PROJECTS

**13** TOOLS

**JOIN NOW →**

**WhatsApp us**

WE ARE AVAILABLE AT
**600+ LOCATIONS**

NOT SURE WHICH COURSE IS RIGHT FOR YOU?
**Choose the Best Course for You - Try our AI-Powered Career Counselling for FREE**

**Start free →**

YOUR NEAREST ISDM NxT CENTRE
**Puthu Trend Institute**
242/6 Main Road, Cholapuram South, Opposite to Indian Oil Petrol Station, Rajapalayam Tk, Virudhunagar District, Tamilnadu 626139, Tamil Nadu - 626139
Call / WhatsApp: **9360180110** · puthutrend@gmail.com

Scan to enquire

COURSE CURRICULUM

# What you will learn

01 Subjects → | 02 Projects → | 03 Tools → | 04 AI Integration

## 01 Subjects & modules

6 subjects with the topics you will learn

### 01 Introduction to Machine Learning & Data Preprocessing

- Machine Learning Fundamentals
- Types Of Machine Learning
- Real-World Machine Learning Applications
- Machine Learning Workflow
- Data Collection Methods
- Data Cleaning And Preprocessing
- Python Data Processing Libraries

### 02 Supervised Learning – Regression & Classification

- Regression Fundamentals
- Linear And Polynomial Regression
- Logistic Regression, Decision Trees, And Random Forests
- Classification Evaluation Metrics
- Scikit-Learn Preprocessing And Model Building
- Cross-Validation And Hyperparameter Tuning
- House Price Prediction Project

### 03 Unsupervised Learning – Clustering & Dimensionality Reduction

- K-Means Clustering And Cluster Selection
- Hierarchical Clustering And Linkage
- Clustering Evaluation And Comparison
- Dimensionality Reduction Fundamentals
- PCA For Feature Reduction
- t-SNE For Visualization
- Machine Learning Based Anomaly Detection

### 04 Neural Networks & Deep Learning

- Perceptrons And Activation Functions
- Deep Learning With TensorFlow And Keras
- Feedforward Networks And Backpropagation
- CNNs For Image Recognition
- RNNs And LSTMs For Sentiment Analysis

### 05 Model Deployment & ML in Production

- Model Deployment Fundamentals
- Flask And FastAPI Model APIs
- Framework Comparison And API Testing
- Hyperparameter Tuning And Optimization
- Cloud Deployment On AWS, GCP, And Azure
- Production Monitoring, Security, And Updates
- AI Ethics, Bias, And Fairness

### 06 Advanced Topics & Capstone Project

- Reinforcement Learning Fundamentals And Algorithms
- Reinforcement Learning Applications And Q-Learning
- Time Series Data And Forecasting Methods
- Stock Price Prediction And Preprocessing
- NLP Fundamentals And Chatbot Development
- End-To-End Machine Learning Project Workflow
- Model Optimization And Deployment

## 02 Projects & assignments

Hands-on work for your portfolio

**P1** Create a predictive model using regression techniques.

**P2** Develop a classification model for image recognition.

**P3** Implement a clustering algorithm on real-world data.

**P4** Build a recommendation system using collaborative filtering.

## 03 Tools & software you will master

4 industry tools

Python

TensorFlow

Pandas

Scikit-learn

## 04 AI Integration

How AI is used inside the work of this course

AI SUBJECT

### AI Fundamentals & Prompt Engineering

- **AI Basics and Everyday Uses**
- **Generative AI: How It Works**
- **Prompt Engineering Foundations**
- **AI for Study and Workplace Tasks**
- **Fact-Checking and Reliable Research**
- **Privacy, Safety and Responsible Use**
- **Integrated Practice and Review**

AI SUBJECT

### AI for Programming & Web Development

- **AI Pair Programming Setup: VS Code and GitHub Copilot**
  GitHub Copilot in VS Code: Sign in, use inline suggestions and Chat, then try agent mode o
- **AI-Assisted Front-End Development**
  GitHub Copilot in VS Code: Use inline suggestions and Chat while building and refining a r
- **Python Coding and AI Agents in the Editor and Terminal**
  Claude Code in Terminal and project files: Install or access it using the current official
- **GitHub Team Workflow and AI Code Review**
  GitHub Copilot code review in GitHub pull requests: Request a review on a practice pull re
- **Calling AI APIs from Your Own App**
  OpenAI API in A local app or server-side project: Create an API key with available account
- **AI-Assisted Testing, Debugging and Documentation**
  GitHub Copilot Chat in VS Code: Use project context to suggest tests or explain a failure,
- **AI-Assisted Deployment and Final Project**
  GitHub Copilot in VS Code: Ask for help preparing or explaining deployment files, then rev

AI TOOLS YOU WILL USE

CH ChatGPT

Google Gemini

GitHub Copilot

VS Code

GitHub

Claude

MC Microsoft Copilot

Perplexity

NotebookLM

CAREER OPPORTUNITIES

# Where this course can take you

**Machine Learning Engineer**
Fresher salary: ₹4.0-6.0 LPA*

**Data Scientist**
Fresher salary: ₹5.0-8.0 LPA*

**AI Researcher**
Fresher salary: ₹6.0-9.0 LPA*

**Business Intelligence Analyst**
Fresher salary: ₹3.5-5.5 LPA*

**Data Analyst**
Fresher salary: ₹3.0-5.0 LPA*

### Freelancing & own business

- Offering machine learning consulting services
- Developing AI-driven applications
- Creating data analysis reports for businesses
- Providing online tutoring for ML topics

### Industries that hire

- Technology
- Finance
- Healthcare
- Retail
- Consulting

### Grow further

- Advanced Data Science Program
- Nxt Certified AI Program
- Specialization in Deep Learning

## Certification

Upon successful completion, you will receive an ISDM NxT certificate, showcasing your skills in machine learning.

**Practical AI-integrated project** | **Final online test** | **Verifiable certificate**

JOB SUPPORT

# How we help you get a job

**1** Resume building assistance

**2** Mock interview sessions

**3** Access to job offers

**4** Guidance on job applications

* Typical fresher salary ranges in India; the actual salary depends on the employer, the city and your skills.

WHY START NOW

# Your future is built by the skills you learn today.

Companies hire people who can do the work. People who use AI well at work are in demand - this course teaches you the job skills and the AI tools together. Every month you practise adds a project to your portfolio - the best time to start is now.

| 18+ | 600+ | 2,708+ | 390+ |
|---|---|---|---|
| Years of training experience | Centres across India | Job offers to our students | Hiring companies |

## UNIQUE FEATURES AT ISDM NxT

- ✓ Free pre-counselling to choose the right course
- ✓ Study material, attendance, assignments, exams and results online from day one
- ✓ 24x7 AI trainer (ChatNxT) for your doubts
- ✓ Experienced, rated trainers and daily class feedback
- ✓ Practical lab sessions and live projects
- ✓ Monthly online mentorship sessions
- ✓ Resume, mock interviews and job offers in your student dashboard
- ✓ Freelancing and start-up guidance

● LIVE PLACEMENT DATA

## Latest job offers to ISDM NxT students

Updated 20 Nov 2026



**Gaurav M.**
India
**Java Software Development Engineer**
Health Catalyst



**Geeta K.**
New Delhi
**tellecaller for digital marketing**
balajimarketingexperts



**Anand S.**
Muvattupuzha
**Hiring Junior Account Executive J...**
CorpZop



**Adarsh S.**
Ghugus
**TGT Computer Science**
Adani Foundation



**Priyanka Y.**
Mumbai
**Data Entry Operator (Full-time) -...**
CorpZop



**Rajan S.**
Ahilyanagar
**Computer Trainer**
Enlearning skill development Ltd

Job offers shared with our students through the ISDM NxT job network. See all at isdmnext.in/latest-placement

LIMITED SEATS · VALID TILL 30 NOV 2026

## FREE Ambassador Affiliate Programme

Complete your admission within **10 days** and join the ISDM NxT Ambassador Affiliate Programme free of cost: refer friends, earn referral rewards as per the programme and get featured on the ambassador leaderboard.

CLAIM NOW

TAKE THE FIRST STEP

# Book your FREE counselling session today

Meet our counsellor, see the lab, get your doubts answered and know the current fees and offers for your centre.

YOUR ISDM NxT CENTRE

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## Choose the Best Course for You

Try our AI-Powered Career Counselling for FREE - answer a few questions and get the courses that fit your interests, skills and career goal.

**Try it FREE →**
isdmnext.in/course-for-you

### 01 Counselling
Free guidance to pick the right course

### 02 Training
Practical classes, labs and projects

### 03 Mentoring
Experts, AI trainer and feedback

### 04 Placement support
Resume, interviews and job offers

### What you get with this course

- Comprehensive study material
- Hands-on practical lab sessions
- Live projects to enhance learning
- 24x7 AI trainer support
- AI career counselling sessions
- Interview preparation assistance
- Job offers available on student dashboard
- Certification upon course completion

ISDM NxT Head Office: 309, Saffron Plaza, Airport Road, Vadodara, Gujarat, 390022 · +916263625594 · inquiry@gmail.com

Fees depend on the centre and current offers - ask your counsellor. Course content may be updated to stay current with industry needs. · isdmnext.in