



# Machine Learning Program

## Master Machine Learning. Lead the Data Revolution.

Machine Learning (ML) is the backbone of today's intelligent systems—powering everything from recommendation engines and fraud detection to predictive maintenance and voice recognition. At **Certed Technologies**, our Machine Learning Program empowers you with the in-demand skills, tools, and real-world experience needed to become a ML expert in today's AI-driven world.

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## Why Machine Learning? Why Now?

ML is at the core of business innovation across industries—healthcare, fintech, e-commerce, manufacturing, marketing, and more. Organizations are investing heavily in ML to automate decision-making, analyze big data, enhance customer experiences, and gain a competitive edge.

As adoption surges, **ML professionals are among the most in-demand tech talents globally.**

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## Learn from Industry Mentors

This program is delivered by experienced Machine Learning engineers, data scientists, and AI researchers from leading organizations. Their mentorship ensures you learn not only theory but how ML is applied to solve **real-world business problems at scale.**

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## Program Highlights

Feature	Description
Duration	6 Months / 450 Hours
Delivery Mode	Hybrid (Online + Offline)
Tools & Platforms	Python, Scikit-learn, TensorFlow, XGBoost, Streamlit

<b>Project Work</b>	5+ Hands-on Projects + 1 Capstone Project
<b>Certifications</b>	Industry-Recognized Certificate + Placement Badge
<b>Career Support</b>	Resume Building, Mock Interviews, Placement Help

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## **What You'll Learn**

**Our Machine Learning curriculum is structured into modules to help you become job-ready:**

### **Module 1: Introduction to Machine Learning**

- ML vs AI vs Data Science
- Types of Machine Learning: Supervised, Unsupervised, Reinforcement
- Real-World Applications and Use Cases

### **Module 2: Python Programming for ML**

- Data Types, Control Flow, Functions, OOP
- NumPy, Pandas, Matplotlib for Data Processing & Visualization

### **Module 3: Data Preprocessing & Feature Engineering**

- Handling Missing Values, Outliers, Encoding
- Feature Scaling, Selection, Extraction
- Data Splitting and Sampling Techniques

### **Module 4: Supervised Learning**

- Linear & Logistic Regression
- Decision Trees, Random Forest, KNN, SVM

- Model Evaluation Metrics (Accuracy, Precision, Recall, F1, ROC-AUC)

## **Module 5: Unsupervised Learning**

- K-Means, DBSCAN, Hierarchical Clustering
- PCA & Dimensionality Reduction Techniques
- Association Rule Mining

## **Module 6: Advanced Machine Learning & Optimization**

- Ensemble Models: Bagging, Boosting (XGBoost, LightGBM)
- Hyperparameter Tuning (GridSearchCV, RandomSearch)
- Cross-Validation & Pipelines

## **Module 7: Model Deployment & Monitoring**

- Using Flask & Streamlit to Build ML Web Apps
- Model Serialization (Pickle, Joblib)
- Basics of MLOps and Continuous Integration

## **Module 8: Machine Learning in Industry**

- ML in Finance, Healthcare, E-commerce, and Supply Chain
- Ethics in ML and Responsible AI Practices
- Introduction to AutoML & No-Code ML Platforms

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## **Career Outcomes**

You'll be equipped for roles like:

- Machine Learning Engineer
- Data Scientist
- Data Analyst
- ML Model Developer
- Business Intelligence Engineer

### Top Industries Hiring ML Talent:

Healthcare | BFSI | E-commerce | Manufacturing | Retail | Logistics | EdTech

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## Tools & Technologies Covered

Python | NumPy | Pandas | Matplotlib | Scikit-learn | XGBoost | TensorFlow | Streamlit | Flask | Git & GitHub | Jupyter | Google Colab

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## Capstone Project Examples

- Fraud Detection System using Classification
  - Demand Forecasting for E-commerce
  - Customer Segmentation for Marketing
  - Predictive Maintenance for Manufacturing
  - Credit Scoring System using Ensemble Models
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## Certification

Earn a **Joint Certification** from Certed Technologies + Industry Partners, recognized by top employers across India and beyond.

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## What Makes This Course Unique?

- ✓ Mentorship from Industry Practitioners
  - ✓ Hands-on Projects with Real Datasets
  - ✓ Resume + LinkedIn Optimization
  - ✓ Lifetime Access to Materials
  - ✓ Dedicated Career Community & Networking
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## Upcoming Batch

Batch Start Date	Mode	Status
15 July 2025	Online	Open
22 July 2025	Offline	Few Seats Left
05 August 2025	Hybrid	Open

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## Custom ML Training for Corporates

### Tailored Machine Learning Training for Your Team

At **Certed Technologies**, we specialize in **customized enterprise ML programs** tailored to your use cases, tools, and business goals. Whether you're building a data science team, empowering analysts, or driving intelligent automation, we co-create solutions that deliver measurable outcomes.

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### We Customize:

- **Curriculum Personalization:** Add/remove modules—e.g., NLP, Time-Series, Recommender Systems
- **Real Projects:** Case studies aligned with your sector

- **Delivery Mode:** Onsite, virtual live, blended, or self-paced
  - **Certifications:** Skill validation & company-branded certificates
  - **Post-Training Support:** Continued mentorship, consulting, and project support
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### **Teams Who Benefit:**

- **Engineering & Analytics Teams** – Build models, automate insights
  - **Product Managers & Leads** – Understand model potential & limitations
  - **Operations & Strategy Teams** – Enable data-driven decisions
  - **HR & L&D Leaders** – Drive upskilling, learning KPIs
  - **CXOs & Department Heads** – Drive ML-led digital transformation
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### **Talk to an Advisor**

Have questions or want to explore custom training?

 Email: [support@certedtechnologies.com](mailto:support@certedtechnologies.com)

 Call/WhatsApp: +91-8920158923 | +91-9009015026

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### **Ready to Become a Machine Learning Professional?**

“Those who master Machine Learning today will lead tomorrow’s innovation.”

[ Enroll Now] [ Request a Callback]

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### **Frequently Asked Questions (FAQs)**

1. **Who can join this course?**  
Final-year students, graduates, and professionals from technical fields (CS, IT, ECE, etc.).
2. **Is coding experience required?**  
No prior ML experience needed. Basic programming skills help. Python is taught from scratch.
3. **Will I receive a certificate?**  
Yes, an industry-recognized certificate and a skills badge.
4. **Are projects included?**  
Yes! Mini-projects and a full-fledged capstone project simulating real-world problems.
5. **What about placement support?**  
Resume reviews, mock interviews, job readiness training, and recruiter connects are provided.
6. **How is it delivered?**  
Online (live + recordings), offline (classroom), or hybrid (your choice).
7. **Weekly time commitment?**  
6–10 hours per week is ideal, but you can move at your own pace.
8. **Is the course industry-relevant?**  
100%. It includes latest tools, AutoML, real-world case studies, and career-focused guidance.
9. **Do I get lifetime access?**  
Yes. Access course materials, recordings, and updates for life.
10. **Can I enroll in corporate batches?**  
Yes, we run separate cohorts for enterprise clients. Contact us for tailored programs.

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