EDUFYI TECH SOLUTIONS

Professional Training & Virtual Internships

MACHINE LEARNING

Specialized Industrial Program · 2026 Edition

PROGRAM TYPE: PROFESSIONAL



OUR ALUMNI WORK AT

Microsoft · Capgemini · Deloitte · IBM · Adobe · EY · Bosch

WHO ARE WE?

Transforming education through industry-integrated learning

At Edufyi Tech Solutions, we are dedicated to transforming the educational journey for college students by offering cutting-edge virtual internships and comprehensive training programs. Our approach combines industry mentorship with practical experience, providing each student with six real-time capstone projects per domain - designed to equip students with the skills to secure their dream jobs upon graduation.

WHY CHOOSE US?

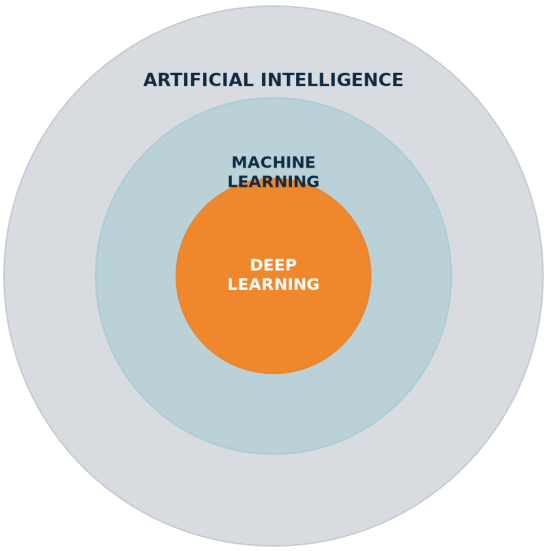
- Choose your speed - master the skills at your pace
- Resume building & aptitude grooming
- 100% placement assistance
- Unlimited mock interviews & GDs
- Wipro DICE ID accredited certifications
- 1:1 counselling sessions
- Certified bootcamps & webinars
- Recorded lectures - anytime, anywhere
- Live mentorship sessions by industry experts
- Industry project playground with real datasets
- Learn from MNC mentors & startup founders
- Exclusive R&D content from leading MNCs
- 24 x 7 dedicated support
- Internships with 150+ partner companies
- Additional certifications: Microsoft, Cisco, IBM, Adobe
- Lifetime personalized LMS access
- Performance-based stipend: skill up & cash in
- Direct access to hiring partners

WHAT IS MACHINE LEARNING?

The engine of modern data science

Machine Learning is a core component of the growing field of data science. Through statistical methods, algorithms are trained to make classifications or predictions, and to uncover key insights in data mining projects. These insights drive decision-making within applications and businesses, directly impacting key growth metrics.

As big data continues to expand, the market demand for ML engineers and data scientists keeps accelerating - making ML one of the highest-leverage skills of the decade.



AI > Machine Learning > Deep Learning

IN A NUTSHELL

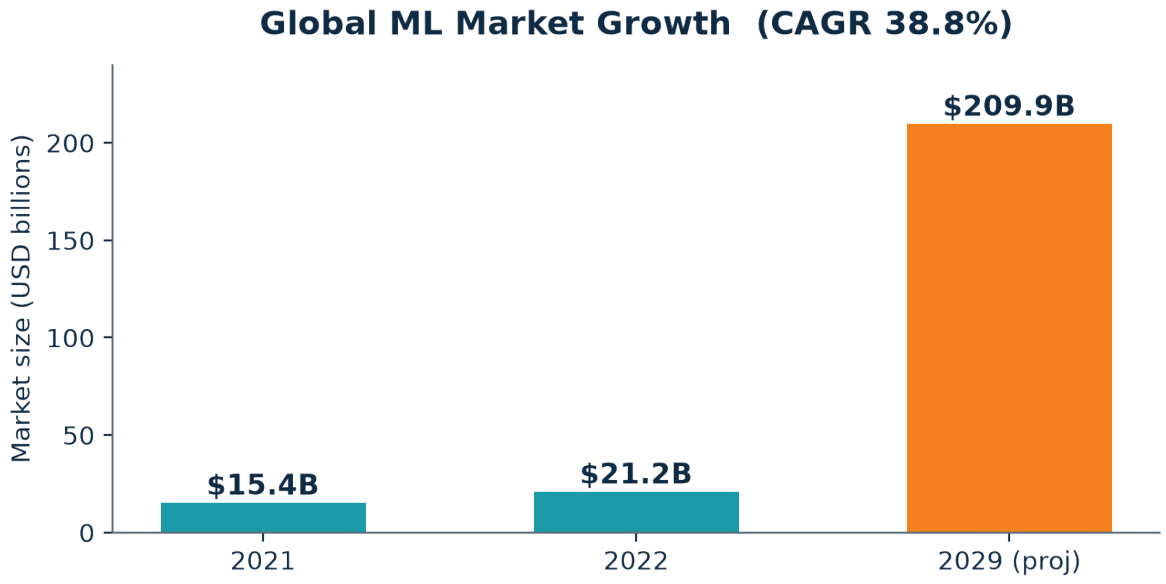
ML systems learn patterns from data instead of following hand-written rules - improving automatically with experience, from spam filters to self-driving cars.

Data -> Model -> Prediction -> Feedback

SCOPE OF MACHINE LEARNING

One of the best career choices of the 21st century

Machine Learning offers abundant high-paying job opportunities, and its future scope is driving a drastic change in the world of automation. The global ML market was USD 15.44 billion in 2021 and is expected to grow from USD 21.17 billion in 2022 to USD 209.91 billion by 2029, at a CAGR of 38.8% during the forecast period.

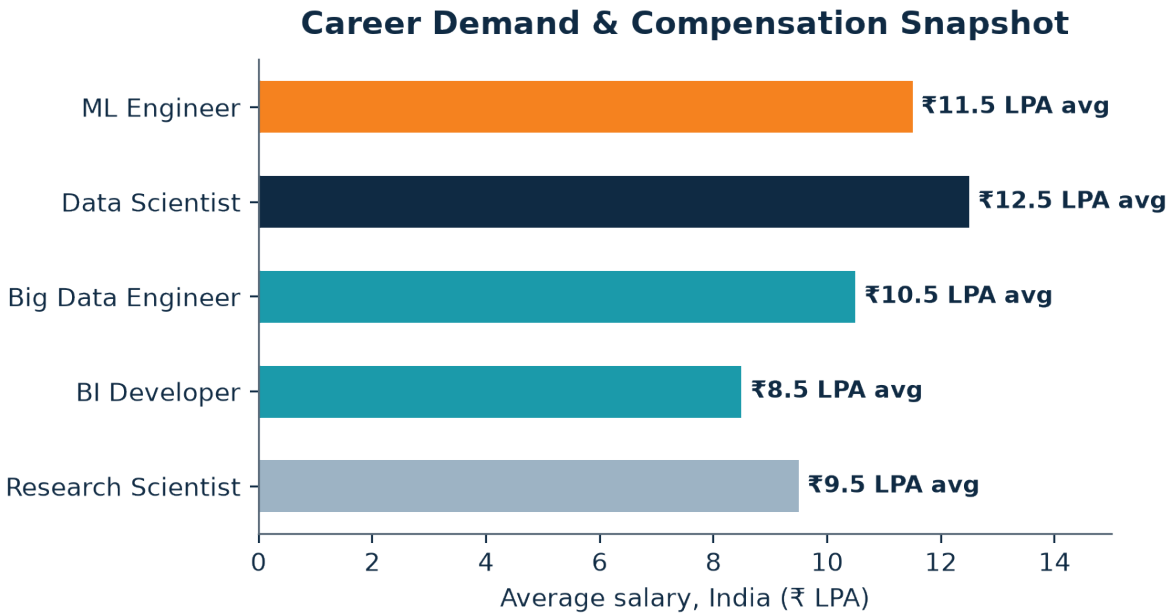


Source: Fortune Business Insights, ML market forecast

CAREER OPPORTUNITIES

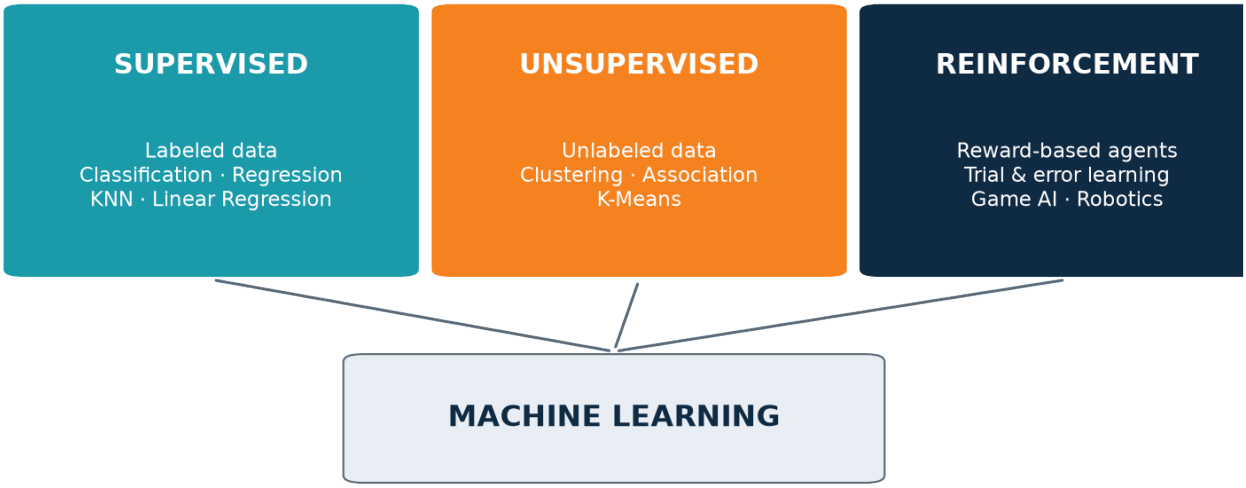
Roles, demand and compensation

- **Machine Learning Engineer**
- **Data Scientist**
- **Business Intelligence Developer**
- **Research Scientist**
- **Big Data Engineer**
- **Big Data Architect**
- **NLP Engineer**
- **Computer Vision Engineer**
- **MLOps Engineer**

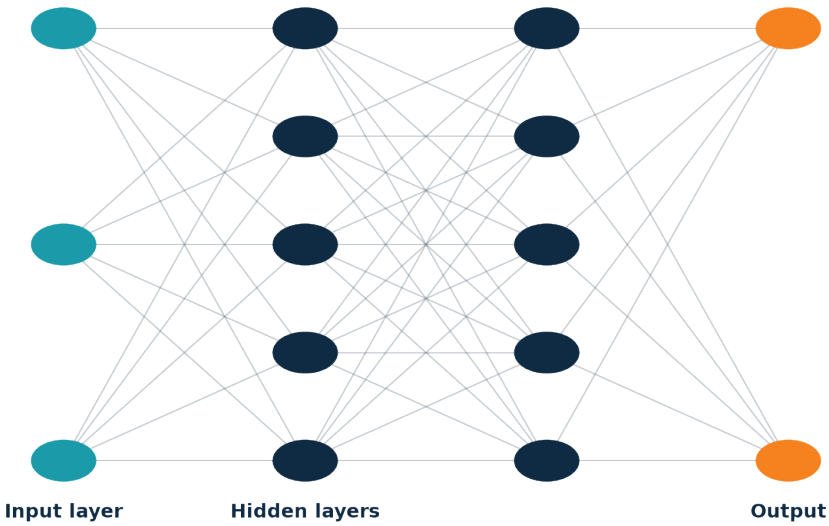


HOW MACHINE LEARNING WORKS

Paradigms and the neural network model



INSIDE A NEURAL NETWORK



Weighted connections between perceptrons adjust during training to minimize error.

PROGRAM CURRICULUM — FOUNDATIONS

Industrial training · Sessions 1–11

SESSION 1 — Python Kickstart

- Introduction to Python & applications
- Competitive landscape analysis

SESSION 2 — Python Deep Dive

- Features of Python
- Competitive analysis

SESSION 3 — Environment Setup

- Download & install Python
- Install Visual Studio Code

SESSION 4 — Variables in Python

- Python variables
- Writing Python in VS Code
- Using variables

SESSION 5 — Intro to ML

- What is Machine Learning
- How the human brain takes decisions
- Case: recognizing the letter F

SESSION 6 — AI vs ML vs DL

- AI vs ML vs Deep Learning
- ML vs AI differences
- DL vs ML vs AI differences

SESSION 7 — Case Study: Self-Driving Car

- Applications of ML
- Input (data) -> Output (decisions)
- Cases: moving object, static object, curved path

SESSION 8 — Types of ML

- Supervised ML
- Unsupervised ML
- Reinforcement ML

SESSION 9 — Supervised ML

- Brain decision-making process
- Supervised learning intro

SESSION 10 — Classification & KNN

- Classification-based supervised ML
- K-Nearest Neighbours algorithm

SESSION 11 — KNN in Practice

- How the KNN algorithm works
- Distance calculation walkthrough

PROGRAM CURRICULUM — CORE ML

Industrial training · Sessions 12–22

SESSION 12 — KNN Logic & Applications

- Logic inside the algorithm
- Example: distance calculation
- Applications of KNN

SESSION 13 — KNN in Excel

- KNN algorithm in Excel
- Case: distance calculation

SESSION 14 — Linear Regression

- What is linear regression
- Regression for supervised ML
- Case: users-per-year data

SESSION 15 — Neural Networks Intro

- Introduction to neural networks
- The perceptron & its functions
- Weights in the perceptron algorithm

SESSION 16 — Perceptron Functioning

- Functioning of neural networks
- Threshold value & bias
- Case: school decision-making

SESSION 17 — Training Neural Networks

- Sigmoid activation function
- Training a perceptron
- Error value of the function

SESSION 18 — Bias & Variance

- Limitations of ML
- Bias vs variance comparison

SESSION 19 — Fitting in ML

- Underfitting
- Good fit
- Overfitting

SESSION 20 — Unsupervised ML

- Intro to unsupervised learning
- Supervised vs unsupervised
- Usage of unsupervised learning

SESSION 21 — K-Means Clustering

- How K-Means works
- Where K-Means is used

SESSION 22 — Reinforcement Learning

- How RL works
- Case study: Flappy Bird game

ADVANCED TRACK — NEW FOR 2026

Beyond the fundamentals: the modern ML stack

DEEP LEARNING

CNNs for image recognition, RNNs & LSTMs for sequences, transfer learning with pretrained models, regularization & dropout.

NATURAL LANGUAGE PROCESSING

Tokenization & embeddings, sentiment analysis, transformers & attention, working with Large Language Models (LLMs).

GENERATIVE AI

Prompt engineering, retrieval-augmented generation (RAG), fine-tuning open models, diffusion models for images.

COMPUTER VISION

Object detection (YOLO), image segmentation, OCR pipelines, face recognition ethics & applications.

MLOPS & DEPLOYMENT

Model versioning, Docker & APIs, CI/CD for ML, monitoring drift, deploying on cloud (AWS / Azure).

RESPONSIBLE AI & XAI

Bias & fairness audits, explainability (SHAP / LIME), data privacy, AI governance and regulation.

Each advanced module includes a hands-on lab and a portfolio-ready mini project.

PROJECTS & ASSESSMENT

Six advanced industry projects · continuous evaluation

ADVANCE INTERNSHIP PROJECTS

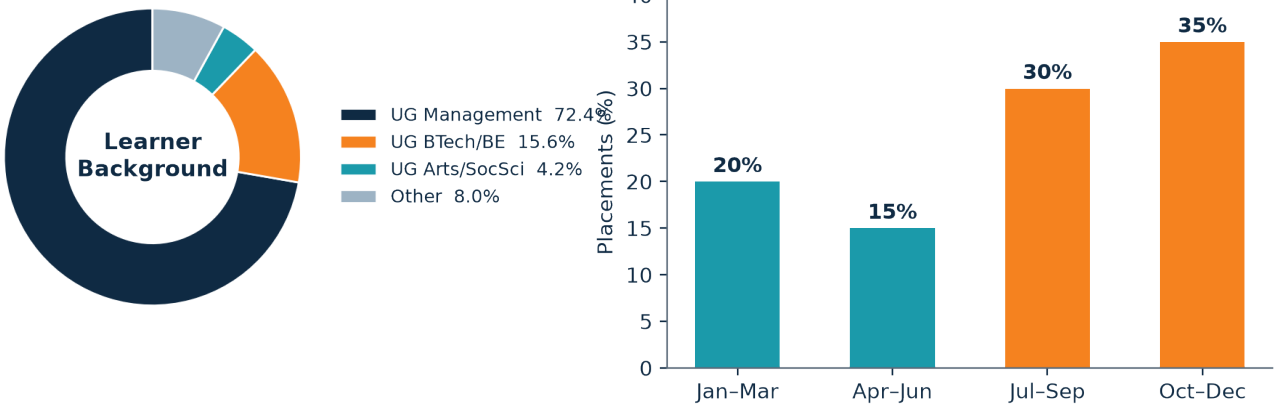
P1	**House Price Prediction** Regression · feature engineering	P2	**Customer Churn Classifier** Classification · KNN / logistic models
P3	**Market Basket Segmentation** K-Means clustering on retail data	P4	**Game-Playing Agent** Reinforcement learning case build
P5	**Image Classifier (Advanced)** CNN with transfer learning	P6	**Chatbot with RAG (Advanced)** LLM-powered document assistant

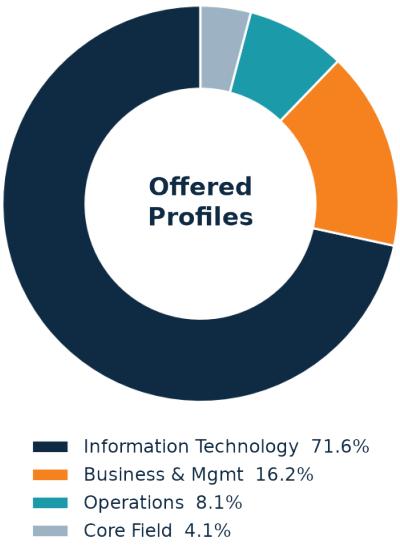
QUIZ & EVALUATION

- Module-end quizzes after every session block
- Unlimited mock interviews & group discussions
- Aptitude grooming and resume reviews
- Capstone defense evaluated by industry mentors

OUR LEARNER COMMUNITY

Backgrounds, placements and offered profiles





71.6% of offered profiles are in Information Technology

followed by Business & Management (16.2%), Operations (8.1%) and Core fields (4.1%).

ACCREDITED CERTIFICATIONS

Industry-recognised credentials for every learner

Every learner receives industry-recognised, accredited certificates on completion of the internship, industrial training and capstone project modules.



INTERNSHIP CERTIFICATE

Accredited Certification



INDUSTRIAL TRAINING

Accredited Certification



PROJECT COMPLETION

Accredited Certification

INTERNSHIP

Verified internship completion credential

TRAINING

Industrial training hours certified

PROJECT

Capstone project completion proof

WIPRO DICE ID ACCREDITED

Every certificate carries a unique verification ID, verifiable online by recruiters.

Issued on completion of internship, industrial training and the capstone project.

GLOBAL MNC CERTIFICATIONS

Certified by the world's leading technology companies

Learners are prepared for and certified through globally recognised professional certification programs from leading technology companies.



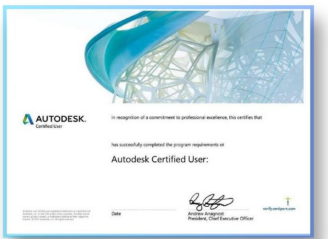
CISCO
Cybersecurity CCST



MICROSOFT
Azure Fundamentals



IBM
Internet of Things



AUTODESK
Certified User



ESB
Entrepreneurship

EXAM VOUCHERS & PREP INCLUDED

Guided preparation, practice tests and on-campus proctored exams for every certification track.

AUTHORISED PARTNERS

An authorised certification & testing partner

Edufyi Tech Solutions is an authorised certification and testing partner for the world's leading technology certification bodies.

ADOBE

MICROSOFT

QUICKBOOKS

AUTODESK

CISCO

ESB

AUTHORISED TESTING & CERTIFICATION CENTRE

Certify on campus with globally accepted credentials.

CERTIFY. BUILD. GET HIRED.

Certifications you earn · and how to enrol

- **Accredited Certification**
- **Microsoft Azure Fundamentals**
- **Cisco Cybersecurity CCST**
- **IBM Internet of Things**
- **Adobe Certified Professional**
- **Autodesk Certified User**
- **ESB Entrepreneurship**
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