



# Artificial Intelligence (AI) and Machine Learning (ML) Programs

Shaping Future-Ready Tech Professionals

Empower your future with cutting-edge Artificial Intelligence education designed for students, graduates, and working professionals.



**AFFILIATED TO**  
**Visvesvaraya Technological  
University (VTU)**



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N.H 75, Adyar,  
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India's No.1  
Professional College



# OTHER MAJOR AFFILIATIONS AND ACCREDITATIONS



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Affiliated to  
Bangalore City University



Affiliated to  
University of Mysore



Affiliated to  
Bharatiya Engineering,  
Science & Technology



Recognised by  
STED Council, New Delhi

## PRESTIGIOUS AWARDS



India Education  
Excellence Award 2014



Asia Education  
Summit Award 2015



The Times Group  
Award - 2023

## Now Affiliated to Visvesvaraya Technological University (VTU)

MIFSE & Minerva College proudly announce our affiliation with VTU, a prestigious, world-class university known for excellence in technical and professional education. This affiliation enhances the academic value of our programs and creates strong national and international career pathways for students.

## Minerva Educational and Charitable Trust (R)-Estd: 2007



The Minerva Educational & Charitable Trust, established in 2007, is dedicated to imparting quality, need-based, professional, and skill-oriented education to the younger generation from various sector, including backward classes, women, and inclusive groups.

The Governing Council, led by the Chairperson including the academic team strives to ensure good governance through transparency, ethics, and value based education.

The Mangalore Institute of Fire and Safety Engineering (MIFSE), a unit of the trust, has been a frontrunner in providing Health and Safety education to those in need.

The Trust is Affiliated with Mangalore University, the University of Mysore, and Bangalore City University.

## WHY STUDY AI WITH US?

- + Industry-aligned curriculum
- + Hands-on practical learning
- + Expert faculty & mentors
- + Real-world projects
- + Career guidance & certification
- + Affiliated to VTU Course

Artificial Intelligence (AI) is transforming industries like healthcare, finance, education, manufacturing, and smart cities. Our programs prepare learners with practical, in-demand AI skills.



# ARTIFICIAL INTELLIGENCE (AI)

Artificial Intelligence (AI) is a branch of computer science that focuses on creating intelligent systems capable of performing tasks that normally require human intelligence. These tasks include learning, reasoning, problem-solving, decision-making, speech recognition, image processing, and language translation. AI systems analyze data, identify patterns, and make decisions with minimal human intervention. AI is widely used in industries such as healthcare, finance, education, manufacturing, transportation, and entertainment.

## KEY AREAS OF ARTIFICIAL INTELLIGENCE:

- + Natural Language Processing (NLP)
- + Computer Vision
- + Expert Systems
- + Robotics
- + Machine Learning and Deep Learning



# MACHINE LEARNING (ML)

Machine Learning (ML) is a subset of Artificial Intelligence that enables computers to learn from data and improve performance without being explicitly programmed. ML algorithms identify patterns in data and use them to make predictions or decisions. As more data becomes available, machine learning models improve their accuracy and effectiveness.

## TYPES OF MACHINE LEARNING

- + Supervised Learning
- + Unsupervised Learning
- + Semi-Supervised Learning
- + Reinforcement Learning



# CAREER OPPORTUNITIES



- + AI Engineer
- + Machine Learning Engineer
- + Data Scientist
- + AI Consultant
- + Research Analyst

Opportunities across IT, FinTech, HealthTech, EdTech, Robotics, and R&D sectors.



# WHO CAN APPLY?



- + Students & Fresh Graduates
- + Working Professionals
- + Career Switchers
- + Entrepreneurs & Innovators



Flexible learning paths for beginners to advanced learners.



## Certificate Course in Artificial Intelligence (AI) and Machine Learning(ML)



Duration: 6 Months | Eligibility: 10+2, PUC, ITI

The Certificate Course in Artificial Intelligence & Machine Learning (CAIML) is an entry-level program designed to introduce students to the fundamental concepts, tools, and techniques of Artificial Intelligence. The course focuses on building a strong foundation in programming, mathematics, data handling, and machine learning while emphasizing practical skills required for beginners in AI and data-driven technologies.

### What the Course Covers

- Python programming fundamentals for AI applications
- Essential mathematics and statistics for AI problem-solving
- Data handling, preprocessing, and visualization techniques
- Introduction to machine learning algorithms and evaluation
- Core artificial intelligence concepts and reasoning methods
- Basics of deep learning, natural language processing, and ethical AI
- Mini capstone project with professional and presentation skills



### Key Learning Outcomes

By the end of the program, learners will be able to write basic Python programs, work with datasets, build simple machine learning models, understand core AI concepts, and apply ethical considerations in AI systems. Students will also gain experience in presenting a mini AI project.

### Career Pathways

AI Foundation Trainee, Junior Data Analyst, Machine Learning Trainee, AI Support Engineer, or progression to advanced diploma and degree-level AI programs.

## Post Graduate Certificate Course in Artificial Intelligence (AI) and Machine Learning(ML)



Duration: 6 Months | Eligibility: Graduate, Diploma, BE

The POST GRADUATE CERTIFICATE IN Artificial Intelligence & Machine Learning (PGAIML) is a skill-intensive program designed for graduates and working professionals who wish to deepen their practical expertise in Artificial Intelligence. The course emphasizes applied machine learning, deep learning, NLP, computer vision, and AI engineering practices required to build, optimize, and deploy real-world AI solutions.

### What the Course Covers

- Advanced Python programming and data processing for AI pipelines
- Mathematical foundations and optimization techniques for AI systems
- Data engineering and feature engineering methodologies
- Advanced applied machine learning techniques
- Deep learning and neural network architectures
- NLP, transformers, and generative AI systems
- Computer vision and multimodal AI concepts
- AI deployment strategies, ethics, and an industry-oriented capstone project



### Key Learning Outcomes

Upon completion of the program, learners will be able to design, build, optimize, and deploy AI systems using industry-standard tools and practices. Graduates will gain hands-on experience with real-world datasets, apply advanced ML and deep learning techniques, develop NLP and vision-based applications, and implement responsible AI solutions.

### Career Pathways

Applied AI Engineer, Machine Learning Engineer, AI Developer, Data Scientist (Junior to Mid-level), NLP Engineer, Computer Vision Engineer, or progression to postgraduate and advanced AI programs.





## Diploma in Artificial Intelligence (AI) and Machine Learning (ML)

Duration: 1 Year | Eligibility: 10+2, PUC, ITI

The Diploma in Artificial Intelligence & Machine Learning (DAIML) is a comprehensive program designed to provide learners with a strong foundation in Artificial Intelligence, Machine Learning, and data-driven technologies. The course combines programming, mathematics, data handling, AI concepts, and hands-on projects to prepare students for entry-level AI roles or further advanced studies in Artificial Intelligence.

### What the Course Covers

- Python programming fundamentals for AI applications
- Mathematical and statistical foundations for AI
- Data handling, preprocessing, and visualization
- Machine learning fundamentals and model evaluation
- Core artificial intelligence concepts and problem-solving methods
- Introduction to deep learning and natural language processing
- Professional skills, AI ethics, and responsible AI practices
- Industry-oriented capstone project

### Key Learning Outcomes

On successful completion of the program, learners will be able to write Python programs for AI tasks, work with datasets, build basic machine learning and deep learning models, understand ethical implications of AI, and develop an end-to-end AI solution through a capstone project.

### Career Pathways

AI Technician, Junior Machine Learning Engineer, Data Analyst (AI-focused), AI Support Engineer, or progression to advanced diploma and postgraduate AI programs.



## Post Graduate Diploma in Artificial Intelligence (AI) and Machine Learning (ML)

Duration: 1 Year | Eligibility: Graduate, BE, Post Graduate, Diploma

The Post Graduate Diploma in Advanced Artificial Intelligence (PGDAAI) is an intensive, industry-aligned program designed to prepare graduates for high-demand careers in Artificial Intelligence, Machine Learning, Deep Learning, and Generative AI. The program combines strong theoretical foundations with hands-on practical training and real-world project exposure.

### What the Course Covers

- Advanced Python programming for scalable AI applications
- Mathematics and statistics foundations for AI algorithms
- Data engineering and feature engineering techniques
- Machine learning algorithms – supervised and unsupervised learning
- Deep learning and neural network architectures
- Natural Language Processing and Generative AI systems
- AI ethics, explainable AI, and model deployment
- Industry-oriented capstone project

### Key Learning Outcomes

Graduates of this program will be able to design, develop, evaluate, and deploy intelligent systems. They will gain hands-on experience with real-world datasets, build and optimize machine learning and deep learning models, develop NLP and Generative AI applications, and deploy AI solutions responsibly.

### Career Pathways

AI Engineer, Machine Learning Engineer, Data Scientist, NLP Engineer, Generative AI Specialist, AI Research Assistant, and related advanced AI roles.





**BUILD YOUR SKILLS**  
**SHAPE YOUR FUTURE**  
**WITH US**

## OUR BRANCHES

### BENGALURU

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### TUMAKURU

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Belthangady Taluk, Dakshina Kannada  
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### MYSURU

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## CONTACT US

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