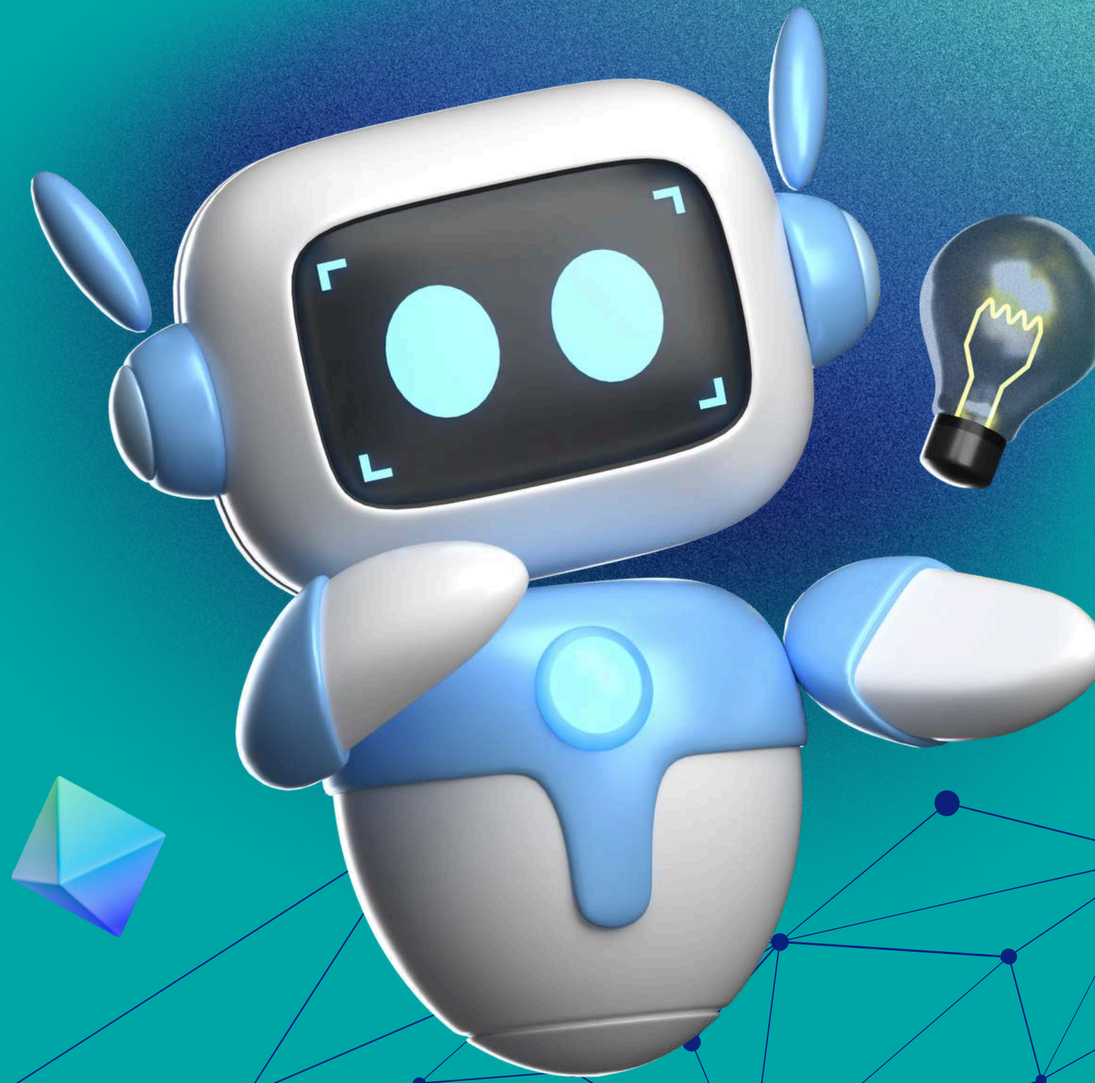
Techadem

AI MACHINE LEARNING

PROFESSIONAL PROGRAM

Practical training focused on building intelligent systems and solving real-world problems using data.

Delivery: Physical & Online



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COURSE OVERVIEW

This program is designed for individuals who want to understand how artificial intelligence works and how machine learning models are built and deployed.

Suitable for:

- Anyone willing to learn mathematics and model logic
- Data analyst transitioning into AI
- Tech professionals interested in automation
- Anyone willing to learn mathematics and model logic

Basic programming knowledge is recommended.

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MODULES 1-3

Foundations of Artificial Intelligence

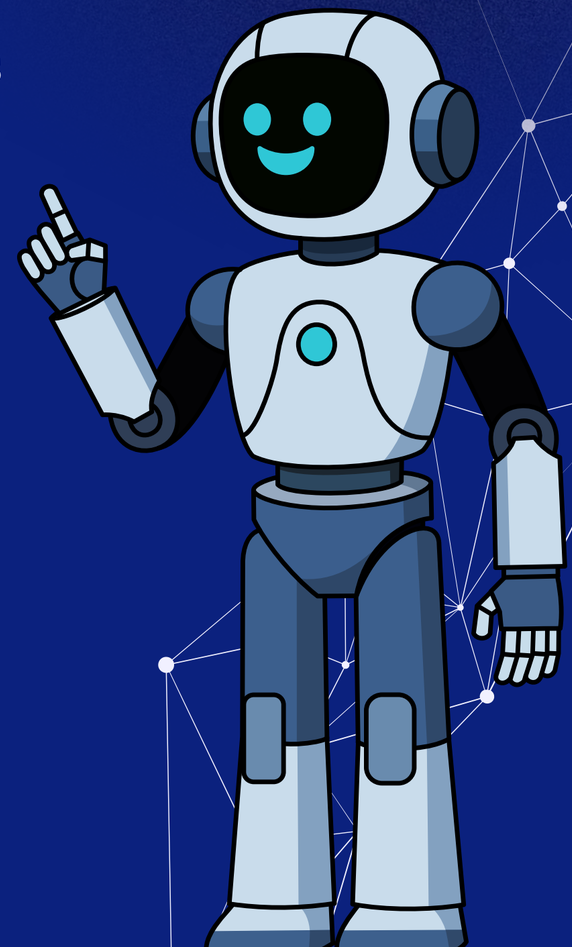
- What is Ai
- AI vs Machine Learning
- Real-world Ai applications
- Types of AI systems
- Understanding data in AI

Python for AI

- Review of Python Basics
- Working with NumPy
- Working with Pandas
- Data processing
- Handling datasets

Mathematics for Machine Learning

- Linear algebra basics
- Probability fundamentals
- Statistics review
- Understanding gradients
- Cost functions



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MODULES 4-6

Supervised

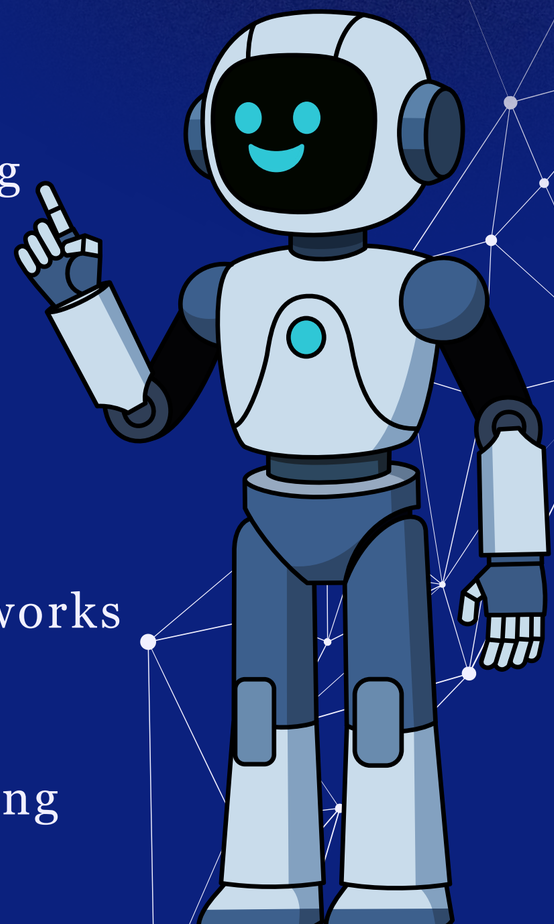
- Regression models
- Classification models
- Model training process
- Evaluation metrics
- Overfitting and underfitting

Unsupervised Learning

- Clustering
- Dimensionality reduction
- Feature engineering
- Data segmentation

Neural Newtworks & Deep Learning

- Introduction to neural networks
- Activation functions
- Training neural networks
- Introduction to deep learning frameworks



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PRACTICAL APPLICATION

Students will:

- ✓ Train machine learning models
- ✓ Work with real datasets
- ✓ Build predictive models
- ✓ Evaluate performance
- ✓ Interpret model results

Portfolio ready AI project included

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MODEL DEPLOYMENT BASICS

- Model testing
- Saving trained models
- Understanding production vs experimentation
- Basic API integration
- Responsible AI considerations

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WHAT YOU WILL BE ABLE TO DO

After completing this program, you will be able to:

- Prepare datasets for machine learning
- Build and evaluate models
- Apply regression and classification techniques
- Understand neural networks
- Create AI based solutions
- Build portfolio ready projects

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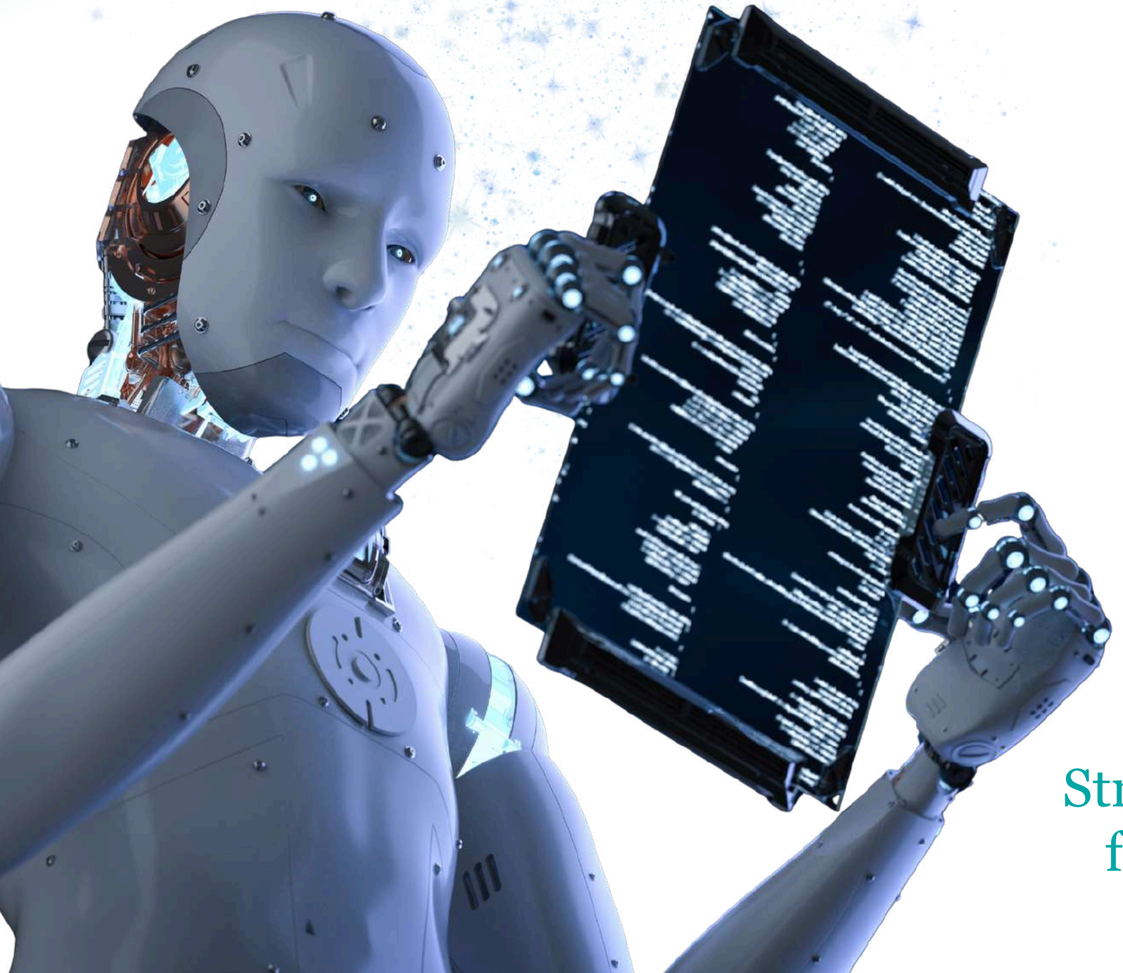
LEARNING STRUCTURE



Live instructor-led sessions

Hands-on assignments

Coding labels

Group projects collaboration

Continuous assessment

Structured progression from fundamentals to applied AI models.

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CAREER OPPORTUNITIES

- Machine learning Engineer (Entry-Level)
- AI Analyst
- Data Scientist
- AI Product Associate
- Automation Specialist

Growth increases significantly with real project experience.

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STUDENT REVIEWS

Michael Ogunleye
Machine Learning Engineer

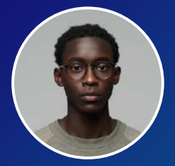
I liked the accountability system because it pushed me to stay consistent. You cannot just register and disappear, they follow up properly.

★★★★★

Daniel Adeyemi
Cloud Engineer

What stood out for me was how they carry everyone along, no one is left behind.
Even the quiet people in class get attention and support.

★★★★★



Chinedu Okafor
Cybersecurity Analyst

I joined thinking it would be another regular class, but the structure and delivery surprised me. Everything connects logically and you can see how it applies in real work.

★★★★★

Esther Afolabi
AI Engineer

The cybersecurity sessions were practical and easy to follow even for someone without tech background. You could tell the examples were from real industry situations.

★★★★★

Ngozi Okeke
Full Stack Web Developer

I got my first remote job while still in the program and that changed my confidence completely. They guided me on positioning myself and it really worked.

★★★★★

Grace Adeola
Data Analyst

I was honestly skeptical because I've tried other trainings before, but this one felt different from day one. They teach with patience and make sure everyone understands before moving on.

★★★★★