



Artificial Intelligence (AI) – Level 1

Duration: 3 Months (12 Weeks)

Mode: Physical & Virtual



Summary

Kickstart your journey into Artificial Intelligence — from understanding what AI really means to building your first machine learning and neural network models. Learn how to use Python, handle data, and create smart solutions that solve real problems in business, tech, and everyday life.

Course Overview

Artificial Intelligence is reshaping industries, from finance and education to healthcare and entertainment. This beginner-friendly program helps you understand how AI works and gives you hands-on experience using Python, real datasets, and modern tools like TensorFlow and Scikit-learn.

Each module combines theory with practical tasks, using relatable African and Nigerian case studies so you can see how AI applies to your world. You'll move from writing your first Python script to training your own machine learning model — all in just 12 weeks.

By the end of this program, you'll have the skills, confidence, and project portfolio to take the next step into advanced AI development or data-driven roles

Modules Overview

- 01. Introduction to Artificial Intelligence**
Explore what AI is, its real-world uses, and how it powers everyday systems.

- 02. Python for AI (Basics)**
Learn Python fundamentals — loops, variables, and functions for automation and logic building

- 03. Python Libraries for AI**
Use NumPy and Pandas for data manipulation and Matplotlib for visualizations.

- 04. Data Handling for AI**
Clean and prepare real datasets for machine learning models

- 05. Data Visualization & Analysis**
Create visuals that explain trends and support decision-making.

- 06. Introduction to Machine Learning**
Understand supervised vs unsupervised learning and build your first predictive models.

- 07. Classification Algorithms**
Implement logistic regression and decision tree models for real-world predictions.

- 08. Neural Networks (ANNs) Basics**
Learn the building blocks of neural networks and train a basic ANN using Keras.

- 09. Deep Learning & CNNs**
Dive into convolutional neural networks and image classification tasks.

- 10. Natural Language Processing (NLP)**
Train AI to understand text — from tokenization to sentiment analysis.

- 11. AI in Practice & Responsible AI**
Study AI applications across sectors and discuss ethics, bias, and fairness

- 12. Capstone Project & Presentation**
Apply everything you've learned to build and present your first AI model.

Career Opportunities

After this program, you can work as a:

Junior Data Analyst

AI Intern or Research Assistant

Machine Learning Trainee

Data Science Assistant

AI Project Support Specialist


Entry-Level AI Enthusiast ready for Level 2




Stay Cirvee Tip

"Start small, but start smart — every great AI engineer once wrote their first line of Python."


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