

PROFESSIONAL LEVEL 07 QUALIFICATION

DIPLOMA IN AI & DATA SCIENCE

Dubai, UAE | Al Rigga Campus



PROGRAM OVERVIEW

Artificial Intelligence enables machines to learn, reason and make decisions, while Data Science uncovers patterns, insights and trends in large volumes of data. This diploma equips you with practical skills in AI, Machine Learning, Data Analytics and Big Data through hands-on projects and expert guidance.

QUALIFICATION

Professional Level 07
Diploma

ACADEMIC ALLIANCE

Kennedy University Florida

CAMPUS

Al Rigga, Dubai

INCLUDES

Internship & Experience
Letter

Program Highlights

- Hands-on AI, machine learning and deep learning
- Real-world datasets and Python training
- Data analysis, visualisation and NLP skills
- Career-ready for AI, Data Science and BI roles
- Internship placement support

Who Should Enroll?

- Aspiring Data Scientists and AI enthusiasts
- Professionals seeking to upskill in Machine Learning
- Students aiming for tech or research careers
- Anyone passionate about actionable data insights

Enquire today: +971 56 202 9777 | info@nucleustraininginstitute.com

An intensive, industry-aligned curriculum in data engineering and intelligent systems, preparing you to tackle complex computational challenges.

01 MODULE 1 Python Programming for AI & Data Science

- Python Syntax & Data Structures
- NumPy & Pandas Libraries
- Object-Oriented Programming (OOP)
- Data Wrangling Techniques
- Database Integration (SQL)

02 MODULE 2 Data Analysis & Visualization

- Exploratory Data Analysis (EDA)
- Data Cleaning & Preprocessing
- Matplotlib & Seaborn
- Tableau & Power BI Integration
- Statistical Data Modeling

03 MODULE 3 Machine Learning Foundations

- Supervised & Unsupervised Learning
- Regression & Classification Models
- Decision Trees & Random Forests
- Clustering Algorithms (K-Means)
- Model Evaluation Metrics

04 MODULE 4 Neural Networks & Deep Learning

- Artificial Neural Networks (ANN)
- Convolutional Neural Networks (CNN)
- TensorFlow & Keras Frameworks
- Model Optimization & Tuning
- Computer Vision Basics

05 MODULE 5 Natural Language Processing (NLP)

- Text Preprocessing & Tokenization
- Sentiment Analysis
- Word Embeddings (Word2Vec)
- Chatbot Development
- Transformers & LLM Basics

06 MODULE 6 AI in Industry & Business Intelligence

- Predictive Analytics for Business
- Big Data Ecosystems (Hadoop / Spark)
- Cloud AI Services (AWS / Azure)
- Ethical AI & Data Privacy
- Capstone Project Deployment

CAREER PATHWAYS

Data Scientist / Analyst

Extracting insights and modelling complex datasets.

Machine Learning Engineer

Building and deploying scalable predictive models.

AI Specialist / Consultant

Advising businesses on AI integration and ethics.

Business Intelligence Professional

Transforming data into strategic corporate dashboards.

WHAT YOU RECEIVE

Professional Diploma

Kennedy University Florida

Official Transcript

Program credits & course hours

Experience Letter

Internship proof from NTI

Visa & Housing Support

Optional, subject to T&C

Admissions Open - Reserve Your Seat Today

Call / WhatsApp +971 56 202 9777 | info@nucleustraininginstitute.com