



APPLIED AI & GENERATIVE AI

ONE-YEAR PROFESSIONAL TRACK

From AI Foundations to Autonomous AI Systems

WORKING PROFESSIONALS

BEGINNER TO ADVANCED

LEARN. BUILD.
DEPLOY. LEAD.



A practical, project-based journey for working professionals moving from AI curiosity to real, deployable skills. Learners progress through Python, data science, machine learning, deep learning, NLP, Generative AI, LLMs, RAG and Agentic AI — building portfolio-ready projects along the way.

12

MONTHS
DURATION

48

WEEKS

5

LEARNING
PHASES

3

SESSIONS /
WEEK

2

CAPSTONE
PROJECTS

HYBRID

ONLINE +
IN-PERSON

✓

CERTIFICATE

PROGRAM OVERVIEW

Ascend's flagship upskilling pathway for working professionals — five phases moving from Python and ML foundations into deep learning, Generative AI and Agentic AI.

PORTFOLIO PROJECTS INCLUDE:

- ✓ Retail Sales Data Analysis & Visualization
- ✓ Capstone 1: Data Science & ML Pipeline
- ✓ Sentiment/Spam Classifier + Deployed API
- ✓ Document-Aware Q&A Chatbot (RAG)
- ✓ Capstone 2: Hosted Autonomous AI Solution

ONE-YEAR AI LEARNING ROADMAP

- 1 Data & AI Foundations**
Months 1–2.5 — Python, NumPy, Pandas, stats & EDA; build a Retail Sales Data project.
- 2 ML & Business Intelligence**
Months 2.5–5 — Supervised & unsupervised models; Power BI dashboards on outputs.
- 3 Deep Learning, NLP & RL**
Months 5–7.5 — Neural networks, NLP pipelines, RL, and a deployed model API.
- 4 Generative AI & LLMs**
Months 7.5–10 — Transformers, prompt engineering, GANs, diffusion, RAG pipelines.
- 5 Agentic AI & Autonomous Systems**
Months 10–12 — Planning, memory, tool use & multi-agent workflows; hosted app.

PROFESSIONAL SKILLS YOU GAIN

- ✓ Python for Data & AI
- ✓ Data Analysis & Visualization
- ✓ Machine Learning
- ✓ Power BI Dashboards
- ✓ Deep Learning (TensorFlow/Keras)
- ✓ Natural Language Processing
- ✓ Generative AI & LLMs
- ✓ Prompt Engineering
- ✓ RAG Applications
- ✓ AI Agents & Multi-Agent Systems
- ✓ Model Deployment
- ✓ Responsible AI
- ✓ Technical Presentation
- ✓ Portfolio Development

PROGRAMME DETAILS

Audience: Working Professionals
Level: Beginner to Advanced
Duration: 12 Months · 48 Weeks
Schedule: 3 Live Sessions/Week
Format: Hybrid · Online + In-Person
Language: English / Arabic
Approach: Applied · Portfolio-Focused
Includes: 5 Phase Projects + 2 Capstones + Showcase

READY TO
UPSKILL?

BUILD REAL AI SKILLS FOR THE
FUTURE OF WORK

+971 4 229 6887 / +971 50 754 2891
Academy@ascendesport.com
www.ascendesport.com

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