

Professional Upskilling Track

Applied AI & Generative Intelligence

One-Year Professional Track

Ages 16+

Beginner to Advanced

A practical, project-based journey for working professionals moving from AI curiosity to real, deployable skills.



12

MONTHS

48

WEEKS

5

LEARNING PHASES

3 / week

LIVE SESSIONS

2

CAPSTONES

Hybrid

ONLINE + IN-
PERSON

Certificate

ON COMPLETION

Programme 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 & Visualisation
- 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

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.

- 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.

Skills Students Gain

Python for Data & AI

Data Analysis & Visualisation

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

Includes

5 phase projects + 2 capstones + showcase

Build Real Projects · Learn by Doing · Think Like an Engineer

Build Real AI Skills for the Future of Work

Enroll Now

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