



*ADNOC Accelerator Programme*

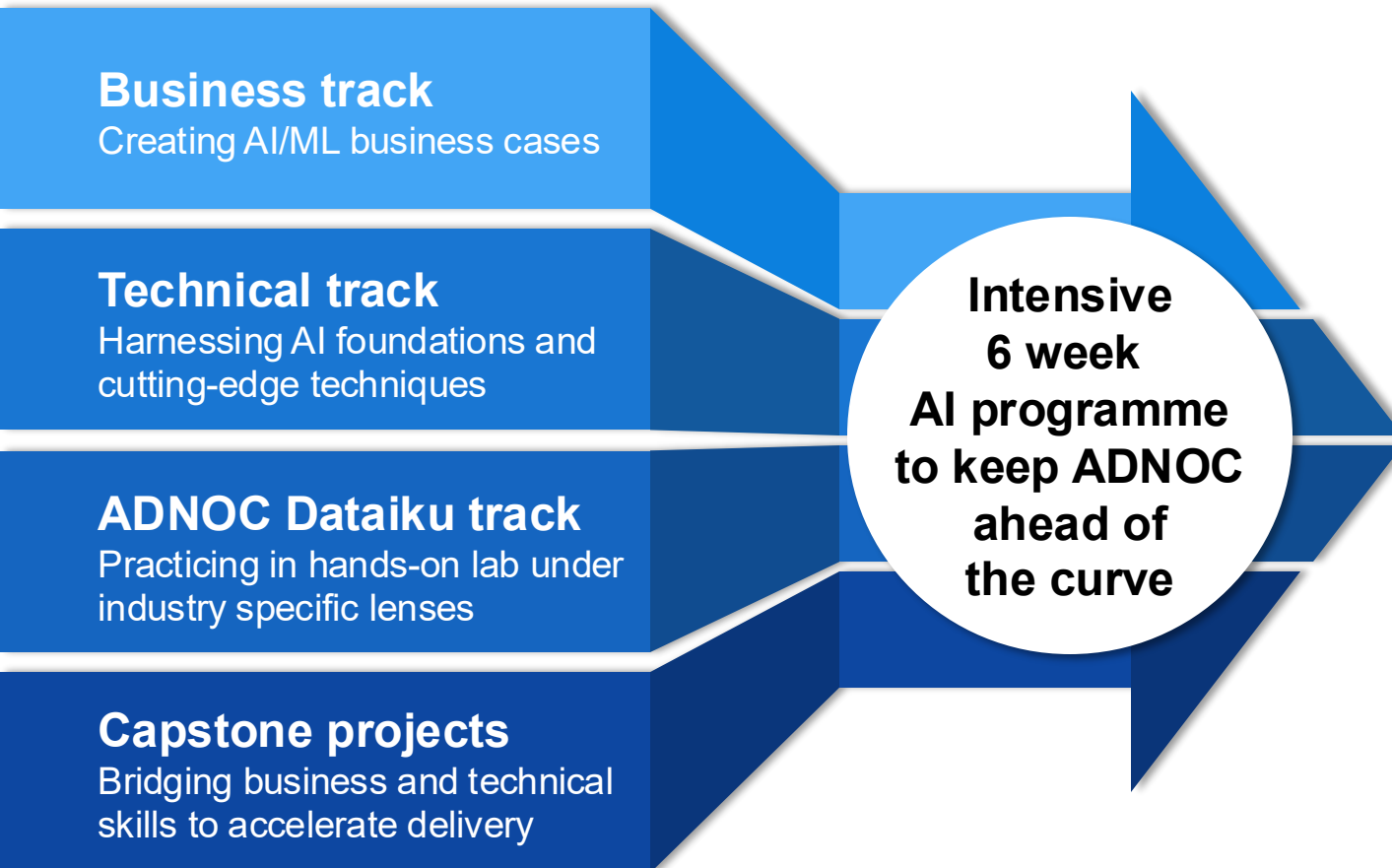
# **Artificial Intelligence**

**COHORT 2**

## **Programme Overview and Objectives**

# Programme overview and objectives

## Overview



## Objectives

- **Future-proofing ADNOC's workforce**  
equipping teams with the latest AI & ML capabilities to adapt to industry advancements
- **Empowering data-driven decision-making**  
with a consultative mindset
- **Building competitive advantage**  
to drive innovation in the evolving energy landscape with in-house AI expertise
- **Attaining ADNOC's goals**  
enhance the company's performance, increase profitability, improve safety, and optimise efficiency

# Programme aims to develop your capabilities in four key areas

## Build strong business and consultative skills



- Apply hypothesis-based thinking to solve problems
- Assess AI opportunities with value-complexity frameworks
- Justify AI investments

## Grow leadership skills to drive AI initiatives



- Develop effective communication and stories
- Persuade executives and partner with vendors
- Align cross-functional teams in pursuit of chosen solution

## Analyse and scale AI solutions



- Learn foundations of data and AI modelling
- Understand how ML and GenAI models are built, and implemented
- Drive use case development

## Catalyse team-level innovation



- Lead AI use case adoption
- Drive optimisation and excellence by capturing value
- Sustain and build on AI-driven change

## *Additional features*

**Capstone business cases created for leadership review**

**Yearlong access to recordings and learning modules**

**AI training certification from ADNOC and WWT**



# Curriculum at a glance

Sessions will be recorded and hosted on WWT ATC Platform for self-paced learning

(B) = Business track (T) = Technical track (L) = Dataiku lab

MODULE 1 Intro to AI in the energy industry and data science fundamentals	MODULE 2 Foundations of an AI business case	MODULE 3 Advanced data science	MODULE 4 Leadership, Communication, and Business Storytelling	MODULE 5 AI use cases in practise	
Week 1 26-30 May	Week 2 2-6 June	Week 3 9-13 June	Week 4 16-20 June	Week 5 23-27 June	Week 6 30 June – 4 July
(B) Programme Overview and Objectives	(B) Overview of Capstone Use Cases <i>*Also presented in-person</i>	(T) Exploring Gen-AI and its Use Cases	(B) Leadership Presence	(B) Change Management	(B) Evaluating the Impact of AI Solutions
(B) Foundations of AI in the Energy Industry	(B) Hypothesis-based Thinking <i>*Also presented in-person</i>	(T) Understanding Internet of Things	(B) Healthy Debate	(T) Planning, Implementing, and Scaling AI	(B) Partner Landscape
(T) Intro to Python for Data Science	(B) AI Use Case Development	(T) Applications of Computer Vision	(B) Building and Communicating a Business Case	(T) Scaling AI with MLOps	(B) AI Training Recap
(T) Data Transformation and Cleaning	(B) Value-complexity Analysis		(B) Executive Presentations and Storytelling <i>*Also presented live virtually</i>		
(T) Machine Learning Fundamentals	(B) Feasibility Assessment		(L) Dataiku Hands-on Lab		
	<b>CAPSTONE PROJECT</b> Team-led use case development: Present business cases to review committee and deliver artifacts (business case and ROI)				



# Business Track



## AI in the Energy Industry

- ☐ Introduction to AI applications in energy
- ☐ Case studies from ADNOC and other industry leaders

## Building an AI Business Case

- ☐ Problem-solving with hypothesis-based thinking and value vs. complexity frameworks
- ☐ Steps to define and develop an AI use case

## Leadership, Communication & Storytelling

- ☐ Encouraging healthy debate within teams
- ☐ Writing clear, effective slides
- ☐ Crafting business cases with a focus on value measurement

## AI in Practice

- ☐ Promoting change: Introduction of change management
- ☐ Navigating the AI partner landscape and their strengths
- ☐ Tracking long-term success of AI use cases

# Technical Track



## Data Science Fundamentals

- ☐ Python syntax and core data structures
- ☐ Working with large datasets and feature inspection
- ☐ Intro to machine learning models

## Advanced Data Science

- ☐ Gen AI: LLMs, NLPs, prompt design, and guardrails
- ☐ Autonomous systems and AI agents
- ☐ IoT: device integration, data processing, and real-world apps
- ☐ Computer vision: pipelines and applications

## AI in Practice

- ☐ Planning, building, and scaling AI strategies
- ☐ MLOps: operationalizing and maintaining AI at scale

# Capstone Track



## Overview

- ☐ Participants will form teams of up to 6-7 members
- ☐ Each team will be assigned a use case by an AI Lab mentor, and supported by an idea owner and a WWT coach

## Timeline

- ☐ 2 June - 4 July: Presentation development
- ☐ 7-18 July: Final presentations to review committee and executives

## Presentation contents

- ☐ Define objectives and success metrics
- ☐ Engage stakeholders and gather requirements
- ☐ Assess data availability and quality
- ☐ Identify technical, business, and compliance risks
- ☐ Determine AI solution approach
- ☐ Estimate benefits, costs, and overall value
- ☐ Develop financial and strategic justification

# Training will be delivered by WWT's AI professionals



**Brian Vaughan**

30+ years in technology,  
data, and consulting



**Jason Lu**

30+ yrs leading data  
science and AI teams



**Kathleen Nowicke**

18+ years in  
technology consulting



**Ajay Dadheech**

18+ years in technology  
and data science



**Yoni Malchi**

17+ years leading data  
science and AI projects



**Chris Carpenter**

17+ years leading cloud  
and MLOps practice



**Ankur Gupta**

15+ years in data  
science and AI



**Anshul Chaturvedi**

15+ years in AI/ML  
strategy and execution



**Charlene Ulrich**

14+ years in business  
data management and ML



**Achal Sharma**

11+ years in big data,  
ML, deep learning



**Ben Dalton**

9+ years in consulting  
and leadership training



**Snigdha Bhardwaj**

8+ years in data  
science and AI solutions



**Alex Stone**

8+ years in consulting  
and AI solutions



**Mayank Lal**

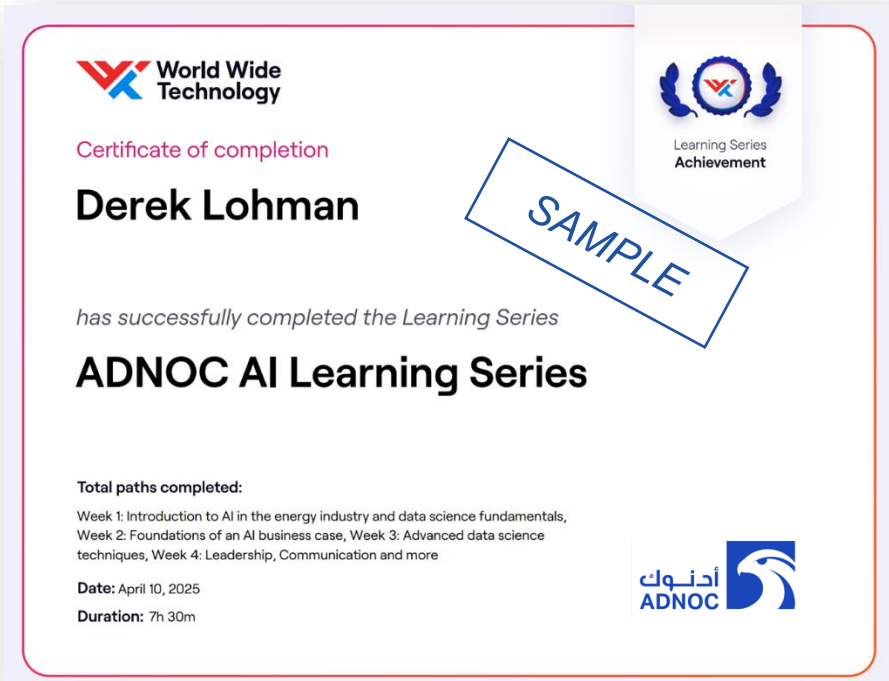
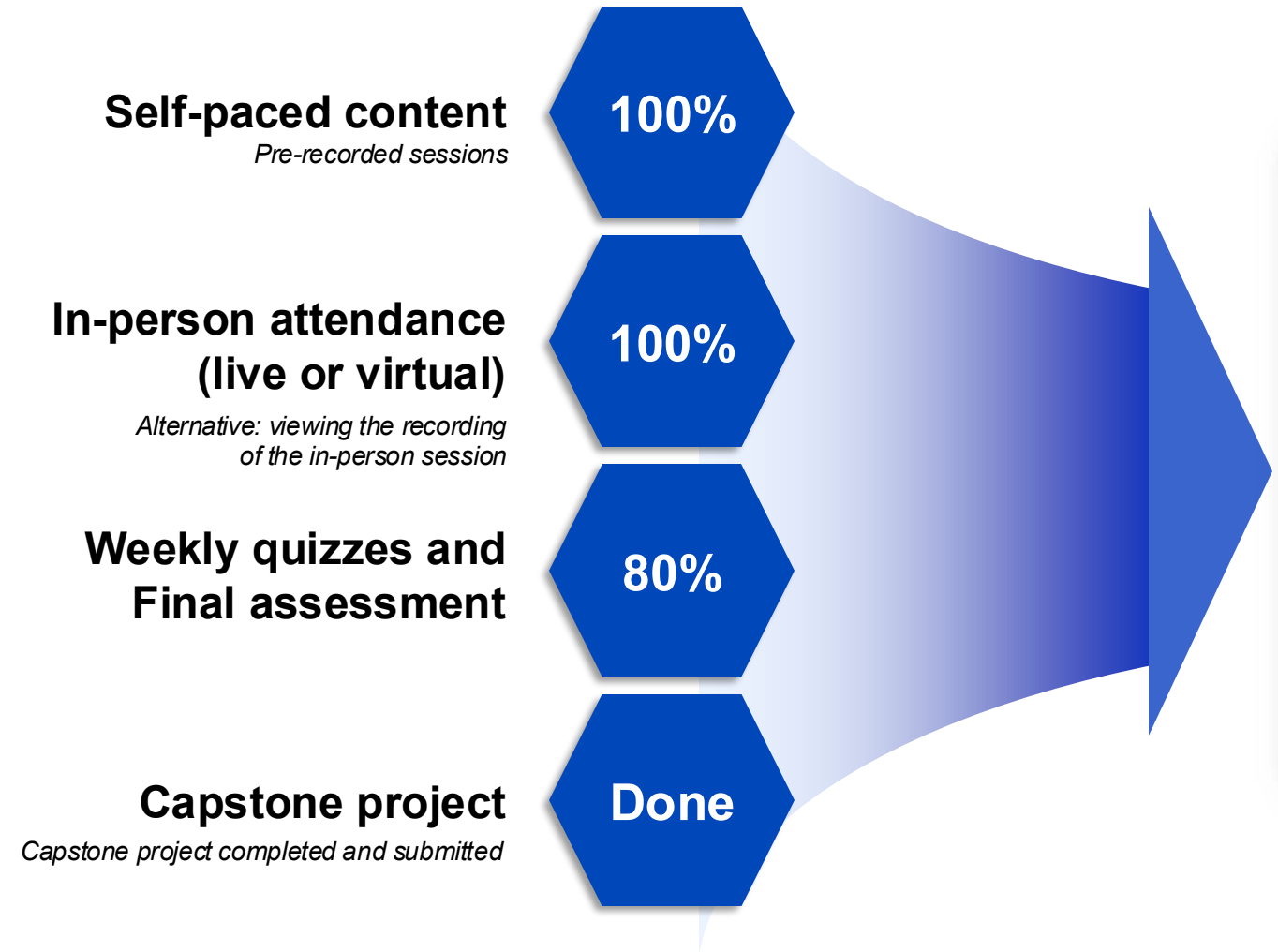
6+ years in building  
data science solutions



**Renee Campisi**

25+ years of  
Change Management

# Requirements for certification





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