

Technology and Business: Cloud, AI and Blockchain

Business essentials and a technical development pathway

FA-0798

AI for Leaders & Business · DevOps, Cloud & Infrastructure · Software Development

Introduction

A modular introduction to cloud computing, big data, AI, peer-to-peer systems and blockchain for modern business. A shared overview leads to a business essentials path for managers and executives or a technical path for developers, engineers and technical personnel.

Business modules focus on concepts, relevance, skills and preliminary planning. Technical modules develop hands-on understanding and introduce implementation work; depth and tools are matched to participant experience.

Learning outcomes

- Explain cloud computing components and their relationship to big-data workflows.
- Assess business needs, implementation skills and preliminary cloud planning assumptions.
- Describe AI/ML components, data pipelines and their relationship to cloud services.
- Compare peer-to-peer systems and blockchain/Web3 applications with centralised alternatives.
- Connect technology choices to business requirements and follow an appropriate learning pathway.

Prerequisites

Shared requirements

Comfort with English-language learning material, a computer, browser and reliable access to course resources. For remote delivery, use the designated meeting platform, microphone and camera.

Business essentials path

For managers and executives exploring technology decisions; no programming prerequisite is specified.

Technical path

For beginner/intermediate technical learners with familiarity with their operating-system file system, terminal or PowerShell, and permission to use the selected development tools. A Google account may be needed for selected hosted exercises.

Training outline

1. Shared overview

Technology capabilities, business relevance and choosing the business or technical pathway.

2. Business essentials — Cloud and big data (1 day)

- Cloud concepts and components.
- Big data and cloud relationships.
- Business need, implementation skills and preliminary planning.

3. Business essentials — AI (1 day)

- AI concepts, components and how systems use data.
- Cloud/AI relationships and data pipelines.
- Business implications and implementation considerations.

4. Business essentials — Web3 (1 day)

- Peer-to-peer approaches and their relationship to centralised infrastructure.

- Blockchain concepts, applications and Web3 perspectives.
- Connecting the technologies to business requirements.

5. Technical pathway — Cloud hands-on (1 day)

Practical cloud concepts and introductory implementation using a selected prepared environment.

6. Technical pathway — AI development (3 days)

Introductory AI/ML development, data pipelines and cloud relationships. Technical participants undertake programming appropriate to their experience.

7. Technical pathway — Blockchain development (2 days)

Blockchain and peer-to-peer development concepts and introductory implementation, connecting technical work to application requirements.