



DATA MANAGEMENT AND BUSINESS INTELLIGENCE | DMBI-039

Data Anonymisation and Privacy-Preserving Analytics

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Course content

Why Attend

Organisations want to analyse and share data while protecting personal privacy and complying with data protection laws. Anonymisation and privacy-preserving techniques make this possible when applied correctly.

This Aractech course explains personal data and re-identification risk, pseudonymisation and anonymisation techniques, aggregation, data masking, differential privacy concepts, synthetic data, risk assessment and governance. Participants assess and anonymise sample datasets.

Course Methodology

- Concept sessions
- Hands-on anonymisation exercises
- Risk assessment workshop
- Case studies
- Group discussions

Course Objectives

- Explain personal data and re-identification risks
- Distinguish pseudonymisation and anonymisation
- Apply masking, aggregation and generalisation
- Understand differential privacy and synthetic data
- Assess anonymisation effectiveness
- Govern privacy-preserving analytics

Target Audience

- Data analysts and scientists
- Data protection officers

Course content

- Data governance professionals
- Researchers

Course outline

Detailed course outline

Day-by-day outline for Data Anonymisation and Privacy-Preserving Analytics.

Day 1 - Privacy and Data

- 09:00-09:45 | Personal data
- 09:45-10:30 | Legal requirements
- 10:30-11:00 | Re-identification risk
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Re-identification risk (continued)
- 11:45-12:30 | Case examples
- 12:30-14:00 | Exercise: Dataset risk review

Day 2 - Techniques

- 09:00-09:45 | Pseudonymisation
- 09:45-10:30 | Masking
- 10:30-11:00 | Generalisation
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Generalisation (continued)
- 11:45-12:30 | Aggregation
- 12:30-14:00 | Lab: Anonymising a dataset

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Day 3 - Advanced Approaches

- 09:00-09:45 | Differential privacy concepts
- 09:45-10:30 | Synthetic data
- 10:30-11:00 | Secure computation overview
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Secure computation overview (continued)
- 11:45-12:30 | Trade-offs
- 12:30-14:00 | Case study: Synthetic data use

Day 4 - Risk Assessment

- 09:00-09:45 | Assessment methods
- 09:45-10:30 | Motivated intruder test
- 10:30-11:00 | Documentation
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Documentation (continued)
- 11:45-12:30 | Residual risk
- 12:30-14:00 | Exercise: Risk assessment

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Day 5 - Governance

- 09:00-09:54 | Policies
- 09:54-10:48 | Data sharing agreements
- 10:48-11:00 | Roles
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Roles (continued)
- 12:12-13:06 | Monitoring
- 13:06-14:00 | Capstone: Privacy-preserving analytics plan

Seminar dates

Available seminar dates

Live dates and pricing for Data Anonymisation and Privacy-Preserving Analytics generated from the course details page.

Date	Location	Format	Fee
9 - 13 November 2026	Barcelona	Classroom	€2,815
14 - 18 December 2026	Paris	Classroom	€3,825
18 - 22 January 2027	Munich	Classroom	€3,225
15 - 19 February 2027	Kuala Lumpur	Classroom	€1,925
15 - 19 March 2027	Amsterdam	Classroom	€2,830
19 - 23 April 2027	London	Classroom	€2,315
17 - 21 May 2027	Munich	Classroom	€3,225
21 - 25 June 2027	Barcelona	Classroom	€2,815
19 - 23 July 2027	Cape Town	Classroom	€1,625
16 - 20 August 2027	Munich	Classroom	€3,225

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