

Advanced Data

Cairo (Egypt)

5 - 9 January 2025

UK Traininig

PARTNER



Advanced Data

Code: IT28 From: 5 - 9 January 2025 City: Cairo (Egypt) Fees: 3900 Pound

Introduction

This course focuses on advanced analytical techniques that are routinely used in industry and academic research. Advanced analytics is a tool that can help you get more out of your data. Predictive analytics can use these clean sets and existing insights to extrapolate and make predictions and projections about future activity, trends, and consumer behaviors.

Course Objectives of Advanced Data

- Estimation of basic models in R/ Python
- Approaches to dealing with missing data.
- Data reduction techniques

Course Outlines of Advanced Data

Day 1

Principal components analysis

- Rescaling principal components
- Choosing the number of components
- Component scores

Day 2

Factor analysis

- Factor extraction and common factor analysis
- Factor rotation and factor scores

Item response theory models

- Latent trait models and item response function
- Logistic and normal IRT models and interpreting the IRT score scale

Day 3

Structural equation modeling and path models



- Path diagrams
- Structural equations & designing SEMs
- Confirmatory factor analysis
- Latent class models

Day 4

Clustering and cluster analysis, and association rules

- Classification in social sciences
- Hierarchical clustering; k-means clustering;
- Model-based clustering
- Visualization of clustering results

Day 5

Missing data

- Missing data generation and mechanisms
- Multiple imputations
- Pattern mixture models
- Data missing not at random
- Missing data in longitudinal studies



Blackbird Training Cities

Europe

izmir



Podgorica (Montenegro)



Stockholm (Sweden)



Lyon (France)



Copenhagen (Denmark)



Bordeaux (France)



Annecy (France)



Oslo (Norway)



Edinburgh (UK)



Glasgow (Scotland)



Malaga (Spain)



London (UK)



Istanbul (Turkey)



Amsterdam (Netherlands)



Düsseldorf (Germany)



Paris (France)



Barcelona (Spain)



Munich (Germany)



Geneva (Switzerland)



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels (Belgium)



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Manchester (UK)



Milan (Italy)

USA & Canada



Los Angeles (USA)



Florida (USA)



Online



Boston (USA)



Washington (USA)



Miami (USA)



New York (USA)



Toronto (Canada)



Blackbird Training Cities

Asia



Baku (Azerbaijan)



Maldives (Maldives)



Manila (Philippines)



Bali (Indonesia)



Bangkok (Tailand)



Beijing (China)



Moscow (Russia)
(Malaysia)



Singapore (Singapore)



Sydney (Australia)



Tokyo (Japan)



Dubai (UAE)



Kuala Lumpur



Jakarta (Indonesia)

Africa



Kigali (Rwanda)



Cape Town (South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Marocco)



Nairobi (Kenya)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



Blackbird Training Clients



UK Training
PARTNER



Blackbird Training Categories

Management & Admin

Professional Skills
Finance, Accounting, Budgeting
Media & Public Relations
Project Management
Human Resources
Audit & Quality Assurance
Marketing, Sales, Customer Service
Secretary & Admin
Supply Chain & Logistics
Management & Leadership
Agile and Refinement

Technical Courses

Hospital Management
Public Sector
Special Workshops
Oil & Gas Engineering
Telecom Engineering
IT & IT Engineering
Health & Safety
Law and Contract Management
Customs & Safety
Aviation
C-Suite Training



International House 185 Tower Bridge
Road London SE1 2UF United Kingdom



+44 7401 1773 35
+44 7480 775526



training@blackbird-training.com



www.blackbird-training.com

UK Training

PARTNER

