Gender and Big Data Training Course

Professional Development Training Course Outline

Category	Gender Studies	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today’s data-driven economy, integrating gender perspectives into big data analytics is essential for achieving inclusive development, equity-driven decision-making, and evidence-based policy design. Gender and Big Data Training Course explores how gender-disaggregated data, AI ethics, machine learning fairness, and data governance frameworks can transform institutions and organizations. Participants will gain practical insights into addressing algorithmic bias, improving data inclusivity, and leveraging digital transformation to promote gender equality across sectors.

As organizations increasingly rely on predictive analytics, data mining, and AI-powered systems, there is a critical need to ensure that these technologies do not reinforce existing inequalities. This training equips participants with tools to analyze gender gaps in data ecosystems, apply ethical AI principles, and design gender-responsive data strategies. Through real-world case studies, participants will learn how to harness big data innovations for social impact, policy reform, and sustainable development goals (SDGs).

Programme Curriculum

Gender and Big Data Training Course

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Course Duration

5 days

Course Objectives

1. Understand gender-responsive data analytics and its role in inclusive governance
2. Apply big data technologies to identify gender disparities
3. Analyze algorithmic bias in AI and machine learning systems
4. Develop gender-sensitive data collection frameworks
5. Strengthen data-driven decision-making for gender equality
6. Integrate AI ethics and accountability into data projects
7. Evaluate data governance policies from a gender lens
8. Use predictive analytics to address gender-based challenges
9. Design gender-inclusive digital transformation strategies
10. Interpret gender-disaggregated datasets effectively
11. Enhance data visualization for gender insights
12. Promote equitable access to digital resources
13. Align big data initiatives with SDGs and ESG frameworks

Target Audience

1. Data analysts and data scientists
2. Gender and development specialists
3. Policy makers and government officials
4. NGO and civil society professionals
5. AI and technology practitioners
6. Monitoring & Evaluation (M&E) officers
7. Researchers and academics
8. Corporate ESG and sustainability teams

Course Modules

Module 1: Introduction to Gender and Big Data

- Concepts of big data ecosystems
- Understanding gender data gaps
- Importance of inclusive data systems
- Overview of digital inequality
- Case Study: Gender data gaps in national census systems

Module 2: Gender-Disaggregated Data Collection

- Techniques for inclusive data collection
- Designing gender-sensitive surveys
- Data quality and representation issues
- Ethical considerations in data gathering
- Case Study: Collecting gender data in rural communities

Module 3: Big Data Analytics and Gender Insights

- Basics of data mining and analytics
- Identifying patterns of inequality
- Tools for gender data analysis
- Interpreting large datasets
- Case Study: Gender trends in employment data

Module 4: AI, Machine Learning, and Gender Bias

- Understanding algorithmic bias
- Fairness in AI systems
- Bias detection techniques
- Ethical AI frameworks
- Case Study: Bias in hiring algorithms

Module 5: Data Governance and Ethics

- Principles of data governance
- Privacy and data protection laws
- Ethical use of gender data
- Accountability mechanisms
- Case Study: Misuse of personal data in digital platforms

Module 6: Gender and Digital Transformation

- Role of digital technologies in gender equality
- Bridging the digital gender divide
- Innovation for inclusive development
- Gender in smart systems
- Case Study: Women’s access to mobile technology

Module 7: Data Visualization and Communication

- Tools for data visualization
- Communicating gender insights
- Storytelling with data
- Dashboards and reporting
- Case Study: Visualizing gender inequality trends

Module 8: Policy, SDGs, and Gender Data

- Linking data to SDG 5 (Gender Equality)
- Policy design using big data
- Monitoring gender indicators
- ESG and gender metrics
- Case Study: Using big data for gender-responsive policies

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

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