Datastat Research
Building Capacity in Training and Research

DATASTAT TRAINING IN

OFFICIAL COURSE PROSPECTUS

Center for Advanced Research & Professional Development

Nairobi Training Center • Global Virtual Academy • Corporate On-Site

LEGAL INSTITUTE

AI Ethics, Algorithmic Accountability and Responsible Innovation Training Course

Comprehensive Course Syllabus, Practical Modules & Upcoming Schedules

PROGRAM SPECIFICATIONS & HIGHLIGHTS

DURATION
5 Days Practical Hands-on

DELIVERY MODES
In-Person Class & Live Virtual

CERTIFICATION
Accredited Certificate of Completion

INTAKES / DATES
Multiple Cohort Schedules Included

PREPARED FOR:

Valued Participant

Email: training@datastatresearch.org | Issued: November 21, 2026

Academic & Professional Training Year: 2026

DATASTAT TRAINING INSTITUTE

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AI Ethics, Algorithmic Accountability and Responsible Innovation Training Course

Legal Institute • 5 Days Intensive • Accredited Certification

Course Overview

AI Ethics, Algorithmic Accountability and Responsible Innovation Training Course provides participants with comprehensive knowledge and practical skills to understand, assess, and manage the ethical, legal, social, and organizational implications of AI technologies.

Key Skills & Software Tools Covered

AI Ethics • Algorithmic Transparency • Responsible AI Governance • Ethical Risk Assessment

Upcoming Training Schedules

Confirmed cohort intakes and venues. Both physical in-person classroom and live virtual online seats are available.

TRAINING DATES	LOCATION / VENUE	FORMAT / DURATION	INVESTMENT (FEE)
23 Nov 2026 – 27 Nov 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
23 Nov 2026 – 27 Nov 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 110,000**
23 Nov 2026 – 27 Nov 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 110,000**
23 Nov 2026 – 27 Nov 2026	Cape Town	Classroom / 5d	**$4,500 USD / KES 110,000**
23 Nov 2026 – 27 Nov 2026	Addis Ababa	Classroom / 5d	**$3,000 USD / KES 110,000**
23 Nov 2026 – 27 Nov 2026	Singapore	Classroom / 5d	**$5,000 USD / KES 110,000**
23 Nov 2026 – 27 Nov 2026	Istanbul	Classroom / 5d	**$5,000 USD / KES 110,000**
23 Nov 2026 – 27 Nov 2026	Bangkok	Classroom / 5d	**$5,000 USD / KES 110,000**
23 Nov 2026 – 27 Nov 2026	Accra	Classroom / 5d	**$4,000 USD / KES 110,000**
30 Nov 2026 – 4 Dec 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
30 Nov 2026 – 4 Dec 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 110,000**
30 Nov 2026 – 4 Dec 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 110,000**

* Corporate discounts and customized cohort scheduling are available for teams of 3 or more participants.

Course Curriculum & Modules

AI Ethics, Algorithmic Accountability and Responsible Innovation Training Course

Introduction

Artificial Intelligence (AI) is transforming business operations, public services, financial systems, healthcare, education, governance, and industrial processes. As organizations increasingly adopt Artificial Intelligence, Machine Learning (ML), Generative AI, Large Language Models (LLMs), and automated decision-making systems, the need for ethical, transparent, inclusive, and accountable AI practices has become a critical priority. AI Ethics, Algorithmic Accountability and Responsible Innovation Training Course provides participants with comprehensive knowledge and practical skills to understand, assess, and manage the ethical, legal, social, and organizational implications of AI technologies. It explores key concepts such as responsible AI governance, algorithmic bias, AI transparency, explainable AI (XAI), data privacy, human-centered AI, fairness in machine learning, AI risk management, and digital accountability. Participants will examine how AI systems can unintentionally reinforce discrimination, compromise privacy, generate misleading outputs, and create operational or reputational risks when deployed without appropriate oversight. The course also explores emerging global AI governance frameworks, regulatory developments, ethical standards, and best practices for ensuring that AI innovation aligns with human rights, organizational values, and societal expectations.

Through practical exercises, industry case studies, interactive discussions, and real-world scenarios, participants will develop the capacity to implement AI accountability frameworks, ethical AI policies, responsible innovation strategies, and algorithmic impact assessments within their organizations. The training emphasizes practical approaches to identifying algorithmic risks, evaluating AI models for fairness, strengthening data governance, improving transparency, and establishing effective human oversight mechanisms. Participants will explore the responsibilities of AI developers, data scientists, policymakers, business leaders, regulators, and technology providers in ensuring trustworthy AI deployment. Special attention will be given to Generative AI ethics, automated decision-making accountability, AI safety, bias mitigation, responsible data utilization, and sustainable AI innovation. By the end of the course, participants will be equipped to balance technological advancement with ethical responsibility, regulatory compliance, public trust, and long-term organizational sustainability while supporting the development of innovative AI solutions that are fair, inclusive, transparent, explainable, and accountable.

Course Duration

5 days

Course Objectives

By the end of this training course, participants will be able to:

- Understand the fundamental principles of AI ethics, responsible AI, and human-centered artificial intelligence.
- Evaluate ethical risks associated with AI algorithms, machine learning models, and automated decision-making systems.
- Identify, measure, and mitigate algorithmic bias, discrimination, and unfair AI outcomes.
- Apply algorithmic accountability frameworks to improve transparency, traceability, and institutional responsibility.
- Develop and implement effective AI governance policies, ethical standards, and organizational oversight mechanisms.
- Understand emerging AI regulations, including the EU AI Act, and international responsible AI governance frameworks.
- Apply Explainable AI (XAI) techniques to improve model interpretability and decision transparency.
- Strengthen data privacy, cybersecurity, data protection, and responsible data management practices in AI systems.
- Conduct AI risk assessments, algorithmic impact assessments, and ethical audits.
- Establish effective human-in-the-loop (HITL) oversight for high-impact AI applications.
- Evaluate ethical challenges associated with Generative AI, Large Language Models, and autonomous AI agents.
- Promote responsible innovation through inclusive design, stakeholder engagement, and ethical technology development.
- Design practical strategies for building trustworthy, sustainable, transparent, and socially responsible AI ecosystems.

Target Audience

- AI developers, machine learning engineers, and software engineers.
- Data scientists, data analysts, and AI research professionals.
- Chief Information Officers (CIOs), Chief Technology Officers (CTOs), and IT managers.
- Risk management, compliance, audit, and corporate governance professionals.
- Policymakers, government officials, regulators, and public-sector administrators.
- Legal practitioners, data protection officers, and privacy specialists.
- Business leaders, innovation managers, and digital transformation professionals.
- Academics, researchers, technology consultants, and AI ethics practitioners.

Course Modules

Module 1: Foundations of AI Ethics and Responsible Artificial Intelligence

- Introduction to artificial intelligence, machine learning, and deep learning.
- Evolution of AI ethics and responsible technology development.
- Core principles of ethical AI: fairness, transparency, accountability, and privacy.
- Human-centered AI and value-based technology design.
- Ethical challenges in AI adoption across industries.
- Case Study: Examining ethical challenges associated with facial recognition technologies and their implications for privacy, discrimination, and human rights.

Module 2: Algorithmic Bias, Fairness and Non-Discrimination

- Understanding algorithmic bias and its sources in AI development.
- Data bias, sampling bias, historical bias, and representation challenges.
- Measuring fairness in machine learning algorithms.
- Bias detection, mitigation, and model optimization techniques.
- Developing inclusive and non-discriminatory AI systems.
- Case Study: Analyzing recruitment algorithms that disadvantage qualified candidates from underrepresented demographic groups and designing bias mitigation strategies.

Module 3: Algorithmic Accountability and AI Transparency

- Principles of algorithmic accountability and institutional responsibility.
- AI transparency, traceability, and decision-making documentation.
- Explainable AI (XAI) and interpretable machine learning models.
- Algorithmic auditing and independent evaluation mechanisms.

- Establishing accountability structures across the AI lifecycle.
- Case Study: Investigating an automated credit-scoring system that rejects loan applications without providing applicants with meaningful explanations.

Module 4: AI Governance, Regulation and Compliance Frameworks

- Introduction to global AI governance principles and standards.
- Understanding the EU AI Act and risk-based AI regulation.
- OECD AI Principles and UNESCO Recommendation on the Ethics of AI.
- Developing organizational AI governance policies and procedures.
- Regulatory compliance, accountability reporting, and governance oversight.
- Case Study: Developing an AI governance framework for a financial institution deploying automated lending and fraud detection systems.

Module 5: Data Privacy, Security and Responsible Data Governance

- Data protection principles in artificial intelligence systems.
- Privacy risks associated with AI training datasets.
- Data minimization, consent, anonymization, and pseudonymization.
- AI cybersecurity, data breaches, and adversarial attacks.
- Responsible data collection, storage, processing, and retention.
- Case Study: Evaluating privacy risks arising from the use of personal customer information in training a Generative AI chatbot and developing appropriate data protection controls.

Module 6: Ethical Risk Assessment, AI Auditing and Human Oversight

- Identifying ethical, operational, legal, and reputational AI risks.
- Conducting AI impact assessments and algorithmic risk evaluations.
- AI model validation, testing, and continuous monitoring.
- Human-in-the-loop and human oversight mechanisms.
- Developing AI audit trails, risk registers, and accountability reports.
- Case Study: Conducting an algorithmic impact assessment of an AI-powered healthcare diagnostic system to identify potential risks associated with inaccurate predictions and inadequate human supervision.

Module 7: Generative AI Ethics and Responsible Emerging Technologies

- Ethical implications of Generative AI and Large Language Models.
- AI hallucinations, misinformation, deepfakes, and content manipulation.
- Copyright, intellectual property, and responsible AI-generated content.
- Autonomous AI agents, human control, and emerging safety concerns.
- Responsible deployment of generative and agentic AI technologies.
- Case Study: Assessing the ethical and reputational risks of a company using Generative AI to produce public communications containing fabricated information and misleading claims.

Module 8: Responsible Innovation, Sustainable AI and Organizational Implementation

- Principles of responsible innovation and ethical technology design.
- Stakeholder engagement and participatory AI development.
- Building organizational responsible AI strategies and implementation roadmaps.
- Measuring AI trustworthiness, social impact, and sustainability.
- Establishing continuous improvement and responsible AI performance indicators.
- Case Study: Designing a responsible AI implementation strategy for a public-sector organization introducing AI-powered citizen service delivery, ensuring accessibility, fairness, transparency, and accountability.

Training Methodology

- 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@datastatresearch.org or call +254724527104

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 DATASTAT CONSULTANCY LTD account, as indicated in the invoice so as to enable us prepare better for you.

Certification & Learning Methodology

- Hands-on practical delivery with real-world datasets, case studies, and lab exercises.
- Post-training mentorship, access to class resources, and customized follow-up support.
- Participants who successfully complete the course receive an accredited Datastat Certificate of Completion.

How to Enroll & Reserve Your Seat

1. Online Registration: Visit https://datastatresearch.org/courses/ai-ethics-algorithmic-accountability-and-responsible-innovation-training-course to register online.
2. Email Booking: Send participant details to training@datastatresearch.org for official invoice & reservation.
3. Support & Assistance: Inquire via phone +254 724 527 104 | +254 734 969 612.