AI for Metadata Creation Training Course

Professional Development Training Course Outline

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

Course Introduction

Artificial Intelligence (AI) is transforming the way organizations create, manage, enrich, and optimize metadata across digital ecosystems. AI-powered metadata creation enhances data discoverability, digital asset management, content classification, semantic search, governance, automation, and regulatory compliance. Organizations in media, libraries, archives, healthcare, aviation, finance, government, education, and e-commerce increasingly rely on AI-driven metadata generation to improve operational efficiency, search accuracy, machine learning readiness, and enterprise knowledge management while reducing manual effort and human error.

AI for Metadata Creation Training Course equips participants with practical knowledge of AI technologies, Natural Language Processing (NLP), Computer Vision, Machine Learning, Generative AI, Large Language Models (LLMs), intelligent tagging, automated classification, metadata standards, and ethical AI practices. Participants will explore real-world implementation strategies, emerging technologies, governance frameworks, and global best practices for creating scalable, accurate, and intelligent metadata systems that support digital transformation and enterprise information management.

Programme Curriculum

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Course Objectives

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

1. Understand AI-powered metadata creation principles.
2. Apply machine learning for intelligent metadata generation.
3. Implement NLP for automated text annotation.
4. Utilize Computer Vision for image metadata extraction.
5. Develop AI-driven metadata quality assurance processes.
6. Improve enterprise search using semantic metadata.
7. Integrate Generative AI into metadata workflows.
8. Apply metadata standards and interoperability frameworks.
9. Strengthen data governance using AI technologies.
10. Optimize digital asset management through intelligent tagging.
11. Reduce manual metadata creation using automation.
12. Evaluate ethical, privacy, and security considerations.
13. Design scalable AI-enabled metadata management strategies.

Organizational Benefits

- Improved metadata accuracy and consistency.
- Faster content discovery and retrieval.
- Reduced manual processing costs.
- Enhanced digital asset management.
- Better regulatory compliance.
- Improved AI and analytics readiness.
- Increased operational efficiency.
- Stronger enterprise knowledge management.
- Higher customer and user experience.
- Scalable information governance capabilities.

Target Audience

- Information Management Professionals
- Digital Asset Managers
- Data Governance Officers
- Librarians and Archivists
- Records Management Professionals

- AI and Data Scientists
- IT and Digital Transformation Teams
- Knowledge Management Specialists

Course Duration: 5 days

Course Modules

Module 1: Introduction to AI for Metadata Creation

- Fundamentals of metadata and AI technologies.
- Metadata lifecycle and automation.
- AI applications across industries.
- Benefits and implementation roadmap.
- Metadata challenges and opportunities.
- Case Study: AI metadata automation at Google.

Module 2: Machine Learning and NLP for Metadata

- Machine learning fundamentals.
- NLP techniques for metadata extraction.
- Entity recognition and keyword generation.
- Automated document classification.
- Language models for metadata enhancement.
- Case Study: Microsoft intelligent document processing.

Module 3: Computer Vision and Multimedia Metadata

- Image recognition technologies.
- Video content metadata generation.
- Speech-to-text metadata creation.
- Object detection and tagging.
- Multimedia indexing strategies.
- Case Study: YouTube AI content tagging.

Module 4: Generative AI and Intelligent Metadata

- Large Language Models for metadata.
- AI-assisted content summarization.
- Automated description generation.
- Prompt engineering techniques.
- Human-AI collaboration workflows.
- Case Study: OpenAI-powered enterprise metadata solutions.

Module 5: Metadata Standards and Governance

- Dublin Core and ISO metadata standards.
- Enterprise metadata frameworks.
- Data governance principles.
- Compliance and privacy requirements.
- Metadata quality management.
- Case Study: Europeana digital library metadata governance.

Module 6: AI Integration and Workflow Automation

- AI workflow design.
- API integration strategies.
- Metadata automation pipelines.
- Cloud-based metadata services.
- Performance optimization techniques.
- Case Study: Amazon Web Services AI automation.

Module 7: Ethical AI and Metadata Quality

- Responsible AI principles.
- Bias detection and mitigation.
- Metadata validation techniques.
- Security and access controls.
- Continuous quality improvement.
- Case Study: IBM AI governance framework.

Module 8: Future Trends and Implementation Strategy

- Emerging AI innovations.
- Enterprise implementation planning.
- ROI measurement frameworks.
- Change management strategies.
- AI maturity assessment.
- Case Study: Adobe Experience Cloud intelligent metadata.

Training Methodology

- Interactive instructor-led presentations.
- Guided demonstrations of AI metadata tools.
- Practical hands-on laboratory exercises.

- Group discussions and collaborative workshops.
- Real-world industry case study analysis.
- Individual and team practical assignments.
- AI platform simulations and exercises.
- Knowledge assessments and quizzes.
- Best practice sharing sessions.
- Final implementation planning exercise.

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

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
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:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com