Training Course on AI-Powered Personalization of Learning Pathways

Professional Development Training Course Outline

Category	Educational Leadership and Management	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today’s rapidly evolving digital education landscape, AI-powered personalization has emerged as a game-changer for learning design and student engagement. Traditional one-size-fits-all approaches to education are becoming obsolete, giving rise to intelligent systems that adapt content delivery based on learner data, behavior, preferences, and performance trends. Training Course on AI-Powered Personalization of Learning Pathways empowers education leaders, instructional designers, and digital learning strategists to harness artificial intelligence for customizing learning experiences that enhance retention, motivation, and learner success.

With a strong focus on adaptive learning, machine learning algorithms, and real-time data analytics, this course delves into practical strategies for implementing personalized learning pathways in both academic and corporate settings. Participants will explore best practices, tools, and AI integration models that enable precise learning interventions, efficient progress tracking, and skill gap analyses—all while aligning with learning goals and organizational outcomes.

Programme Curriculum

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Course Objectives

1. Understand the fundamentals of AI in education.
2. Explore the impact of adaptive learning systems on learner outcomes.
3. Apply machine learning techniques to personalize content delivery.
4. Design learner-centric pathways using AI analytics.
5. Leverage real-time learning data to inform instructional decisions.
6. Integrate AI-powered chatbots and tutoring agents in learning.
7. Assess learner engagement using predictive analytics.
8. Align personalized pathways with competency-based learning frameworks.
9. Utilize natural language processing (NLP) for intelligent content curation.
10. Analyze ethical considerations in AI-driven learning personalization.
11. Optimize learning management systems (LMS) for intelligent adaptation.
12. Conduct AI-readiness audits for institutions and organizations.
13. Evaluate the ROI of AI-enhanced learning experiences.

Target Audiences

1. K–12 and Higher Education Leaders
2. Instructional Designers
3. EdTech Entrepreneurs
4. Curriculum Developers
5. Corporate Learning & Development Professionals
6. LMS Administrators
7. Online Course Creators
8. Education Policy Makers

Course Duration: 5 days

Course Modules

Module 1: Introduction to AI in Learning

- Definition and scope of AI in education
- Types of AI tools used in digital learning
- Key benefits of AI-powered personalization
- Current trends and innovations in EdTech
- Challenges and limitations of AI adoption
- **Case Study**: IBM Watson’s Role in Adaptive Learning

Module 2: Adaptive Learning Models

- Understanding adaptive learning frameworks
- AI-driven learner profiling
- Personalization through competency mapping
- Learning progress tracking and feedback loops
- Tools for dynamic learning paths
- **Case Study**: DreamBox Learning in K–12 Math Instruction

Module 3: Learning Analytics and Data Insights

- Collecting and managing learning data
- Real-time learner behavior analysis
- Predictive analytics for dropout prevention
- Visualizing progress and engagement metrics
- Data privacy and compliance (FERPA, GDPR)
- **Case Study**: Georgia State University's Use of Analytics to Improve Graduation Rates

Module 4: AI Tools for Content Personalization

- NLP and intelligent content recommendations
- Using AI to identify learner interests and gaps
- Automatic generation of customized resources
- Content sequencing and personalization engines
- Integration with LMS platforms like Moodle and Canvas
- **Case Study**: Squirrel AI's Intelligent Tutoring Systems

Module 5: Chatbots and AI Tutors

- Types and functions of AI tutors
- Conversational AI in learner support
- Emotional recognition and tone detection
- Integration with WhatsApp, Slack, and LMS
- Continuous improvement of bot intelligence
- **Case Study**: Duolingo's AI Chatbots for Language Learning

Module 6: Designing Personalized Learning Pathways

- Setting goals and outcomes for personalization
- Using AI to map learner journeys
- Blending synchronous and asynchronous experiences
- Personalizing assessments and feedback
- Scaffolded support through learning stages
- **Case Study**: Khan Academy's Mastery-Based Pathways

Module 7: Ethics, Bias, and Equity in AI Learning

- Understanding algorithmic bias in education
- Ethical considerations in learner data use
- Promoting equity through AI-powered systems
- Transparency and accountability in personalization
- Ensuring cultural sensitivity in AI design
- **Case Study**: UNESCO Guidelines on AI and Education Equity

Module 8: Implementation and Scaling Strategies

- Building institutional AI-readiness
- Cost-benefit analysis for AI integration
- Stakeholder engagement and training
- Evaluating success metrics for AI personalization
- Piloting and scaling successful use cases
- **Case Study**: Arizona State University's AI Implementation Roadmap

Training Methodology

- Interactive expert-led presentations
- Hands-on labs and AI tool simulations

- Case study deep-dives and peer group discussions
- LMS-integrated practice exercises and quizzes
- Real-time data interpretation and dashboards
- Capstone project: Design a personalized AI learning solution

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
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

Start Date	End Date	Location	Price
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