AI-Powered Smart Learning Platform Design Training Course



14 - 18 Dec 2026

Cape town

4600 € (Per Person)

Ref: #AI3771_263736

Course Introduction / Overview:

This training course is designed to provide educators, developers, and administrators with a comprehensive understanding of how to use artificial intelligence to create more effective and personalized learning experiences. As education evolves, the demand for smart learning platforms that can adapt to individual student needs is growing rapidly. This program goes beyond a simple overview and provides a strategic and practical framework for designing and implementing AI-powered educational technologies. Drawing on the work of prominent academic authors like Ryan S. J. D'Souza from his book "Artificial Intelligence in Education," the course explores how machine learning, natural language processing, and data analytics can be used to develop adaptive learning systems, intelligent tutoring, and automated assessment tools. Participants will learn to use AI to improve student engagement, personalize educational content, and provide real-time feedback. BIG BEN Training Center has developed this curriculum with a strong focus on hands-on application. It includes case studies and projects that allow participants to apply their knowledge to real-world educational challenges, preparing them to lead their institutions in the next generation of education.

Target Audience / This training course is suitable for:

- Educators and curriculum designers.
- EdTech product managers.
- Educational technology specialists.
- Instructional designers.
- School and university administrators.
- Software developers in the EdTech sector.
- Academic researchers.

Target Sectors and Industries:

- Education and academic.
- Educational technology (EdTech).
- Corporate training and development.
- Publishing and digital content.
- Government education departments.
- Non-profit organizations.
- Research institutions.

Target Organizations Departments:

- Academic and student affairs.
- Instructional technology.
- Curriculum and instruction.
- IT and software development.
- Research and development.
- Corporate learning.
- Educational planning.

Course Offerings:

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

- Design and develop AI-powered learning platforms and tools.
- Create personalized learning paths and adaptive content using machine learning.
- Implement intelligent tutoring systems that provide real-time feedback.
- Use natural language processing (NLP) to analyze student writing and provide automated grading.
- Analyze educational data to identify learning patterns and student needs.
- Understand the ethical considerations of using AI in education.
- Develop a strategy for integrating AI into an existing educational system.

Course Methodology:

The training course at BIG BEN Training Center is built on a practical, project-based methodology that ensures participants gain real-world skills. We believe that to truly master AI in education, participants must move beyond theory and engage in hands-on design and implementation. The course uses a series of workshops and collaborative projects where participants work in teams to design a prototype of an AI-powered learning tool. These projects address real educational challenges, such as creating a system that gives personalized math practice or an AI-powered writing assistant. The training includes live demonstrations and interactive sessions where participants can use and experiment with different AI models and platforms. The curriculum is designed to be highly relevant and includes case studies of successful EdTech solutions. This approach ensures that participants leave with a clear understanding of how to use AI to improve learning outcomes and with a tangible portfolio of work they can use to show their skills.

Course Agenda (Course Units):

Unit One: Foundations of AI in Education

- Introduction to AI and its applications in learning.
- The concept of smart learning platforms.
- AI-driven personalization and adaptive learning.
- Data collection and management in educational settings.
- Ethical considerations and data privacy.
- Case studies of AI in education.
- Defining a problem statement for a practical project.

Unit Two: Designing Personalized Learning Paths

- Understanding learning analytics and its applications.
- Using machine learning to create personalized learning paths.
- Content recommendation systems for students.
- Adaptive assessment and automated feedback.
- Intelligent tutoring systems.
- Analyzing student performance data.
- Practical project on personalized learning design.

Unit Three: Natural Language Processing for Education

- Introduction to NLP in educational technology.
- Automated essay scoring and writing feedback.
- Building AI-powered chatbots for student support.
- Using NLP for plagiarism detection.
- Analyzing student communication and collaboration.
- Speech recognition for language learning.
- Practical project on NLP for education.

Unit Four: Content Creation and Assessment Automation

- AI-powered content generation for teaching materials.
- Using AI to create personalized quizzes and exercises.
- Automated grading and assessment tools.
- Computer vision for interactive learning.
- Gamification with AI.
- Building a learning analytics dashboard.
- Practical project on assessment automation.

Unit Five: Implementation, Strategy, and The Future

- The implementation of AI in schools and universities.
- Overcoming technical and cultural challenges.
- Evaluating the effectiveness of AI-powered platforms.
- Building a long-term strategy for EdTech.
- Future trends in AI for education.
- Ethical governance and AI in the classroom.
- Final capstone project presentation.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

How can educators ensure that AI-driven personalization enhances critical thinking and creativity, rather than simply optimizing for standardized test scores?

What unique qualities does this course offer compared to other courses?

This training course is designed to be a complete, applied program that bridges the gap between educational theory and technological implementation. While other programs may cover AI or education separately, this curriculum focuses on their powerful combination, providing a unique framework for designing and implementing smart learning solutions. The course's hands-on, project-based methodology is a key differentiator. Participants won't just learn about concepts; they will build a prototype of a real-world educational tool, giving them tangible skills and a portfolio piece that demonstrates their expertise. This practical approach is an invaluable asset for professionals who want to lead innovation in their educational institutions. We also address the crucial ethical aspects of using AI in learning, such as data privacy and bias, which are essential for building trustworthy and effective platforms. This focused, in-depth approach is what sets BIG BEN Training Center apart and makes this program an indispensable resource for anyone looking to transform education with technology.