AI FOR K-12

UNLOCK THE ULTIMATE POTENTIAL

15 Hours

For Educators, Computing and STEM Teachers

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Overview

Teaching AI in schools helps learners develop computational thinking skills that can be utilized to solve real-world problems. It is therefore necessary for all school systems to prepare their students by implementing AI curriculum following design thinking and project-based learning. In this workshop, attendees will be acquainted with the state-of-the-art AI technologies that can be integrated across various subjects in STEM/STEAM projects with complete immersion model and discuss the direct and indirect impact of this on the learning process.

CPD CERTIFIED
The CPD Certification Service

AI Quintessential

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Module 1 (Day 1)

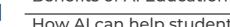|	
🔓	Ice-breaker activity
	Key concepts and practices (Day 1)
	Introduction to the Workshop Portfolio (A guide on how to develop a learning portfolio with examples)
📊	Workshop takeaways
	Artificial Intelligence-The Big Picture
	What is Artificial Intelligence?
	Artificial Intelligence Applications
	How AI is related to Data Science and Machine Learning
💡	Activity: Identify the Data Science and Machine Learning Skills that need to be taught for school students
📊	AI Curriculum Big Ideas
💡	Activity: AI Curriculum Big Ideas, Standards, and Learning Objectives
💬	Discussion: How can AI be integrated in the school curriculum in different subjects-AI & STEM
💡	Activity: Demonstration of examples on how to integrate AI & STEM
📊	Benefits of AI Education
	How AI can help students acquire different subjects' knowledge
💡	Activity: How can we secure the prerequisites of an AI Curriculum
📊	Coding for AI: Block and Hand Coding
🔒	Update the workshop portfolio
	Wrapping up Day 1

Module 2 (Day 2)

🔓	Warm-up activity (Day 2)
📊	Key concepts and practices
💡	Activity: Examples of Block and Hand Coding
📊	Computational Thinking and AI
💡	Activity: Identify the Computational Thinking Skills in different AI Projects
📊	AI for Problem Solving
	Developing AI integrated projects (Chatbot, Face Recognition, Fraud Detection)
💡	Activity: Create a Chatbot Guided Project
💬	Open Discussion
🔒	Update the workshop portfolio
	Wrapping up Day 2

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Module 3 (Day 3)

🔓	Warm-up activity (Day 3)
📊	Key concepts and practices
💬	Discussion: AI Teachers' competencies: What do I need to know?
💡	How to qualify teachers to teach AI
💬	Discussion: Challenges of AI Education and how to overcome them
💡	Explore the AI Curriculum
📊	AI Teaching Tools
	AI Teaching Pedagogies
💡	Activity: Prepare an AI lesson plan
🔒	Wrapping up: Finalize and submit the workshop portfolio
	Workshop Feedback