

# **AI Adventures: Exploring the World of Smart Machines Overview**



# AI ADVENTURES: EXPLORING THE WORLD OF SMART MACHINES



STEM &amp; Technology



Entrepreneurship



Primary School



7 sessions

## ABOUT

"AI Adventures: Exploring the World of Smart Machines" course offers concise lessons to develop students' critical thinking about Artificial Intelligence (AI). In a rapidly changing world, the course introduces AI functionalities, benefits, and risks. It encourages reflection on the social and ethical aspects of AI, covering key topics like News and Media Literacy, Digital Citizenship, and core AI concepts. The goal is to equip students with the knowledge to navigate the AI landscape responsibly. Additionally, the aim of this course is to illustrate how AI is used to prepare students for the evolving demands of the future workforce.

## SESSION STRUCTURE

- 1 More Than Just Sci-Fi: Uncovering the basics of AI, understanding its nature, and examining its potential.**
- 2 How Computers Grow Their Brains!: Diving into the intricate process of AI training, exploring how data shapes and molds the capabilities of artificial intelligence.**
- 3 The Curious Case of Chatterbot: The Identity of AI Chatbots: Investigating the lifelike qualities crafted into AI chatbots and analyzing their influence on daily life, questioning the implications of their human-like interactions. Examining the impact of AI chatbots on the concept of friendship, considering how these digital entities shape and redefine our understanding of social connections.**
- 4 Understanding AI Bias: The Challenge of Fairness in Artificial Intelligence: It investigates the complexities of AI bias, understanding its origins, and gaining insights into the challenges of navigating through biased artificial intelligence. Assessing the real-world consequences of AI bias, exploring how it affects individuals and communities, and contemplating potential solutions to mitigate its impact.**
- 5 Understanding AI Algorithms in Your Online World: Delving into the realm of AI algorithms and their influence on shaping online content, questioning how artificial intelligence molds the information we encounter.**
- 6 Shaping the Future: The Exciting and Ethical Journey of AI: Explore the pros and cons of Artificial Intelligence (AI). Delve into its positive impact on efficiency, problem-solving, education, healthcare, and communication. However, be aware of the risks, including bias, job displacement, and privacy concerns. Engage in critical discussions to understand AI's multifaceted nature and its societal implications.**
- 7 A Journey of Questions and Discoveries: Synthesize your understanding of AI by exploring its essence, training processes, chatbot identity, bias effects, algorithmic influence, and risks and benefits. This overarching topic emphasizes the critical importance of AI literacy in preparing students for the evolving demands of the future workforce. Gain comprehensive insights into AI's multifaceted nature and societal implications, ensuring readiness for success in a technology-driven professional landscape.**

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## OUTCOMES

Students will:

- Acquire foundational knowledge about the basics, nature, and potential advantages and disadvantages of AI.
- Investigate the intricate process of AI training, focusing on understanding how data shapes and influences the capabilities of artificial intelligence.
- Examine the lifelike qualities of AI chatbots, assessing their impact on daily life and critically questioning the implications of their human-like interactions, particularly on the concept of friendship and social connections.
- Delve into the complexities of AI bias, gaining insights into its origins. Assess the challenges of navigating biased artificial intelligence, explore real-world consequences, and consider potential solutions.
- Investigate the role of AI algorithms in shaping online content, questioning how artificial intelligence molds the information encountered online.
- Examine the positive impact of AI on efficiency, problem-solving, education, healthcare, and communication. Evaluate the risks associated with bias, job displacement, and privacy concerns. Engage in critical discussions to comprehend the multifaceted nature of AI and its societal implications.
- Possess crucial AI literacy, gaining comprehensive insights into its multifaceted nature and societal implications. This prepares them effectively for success in a technology-driven professional landscape amid the evolving demands of the future workforce.

## SKILLS

Critical Thinking - Ethical Decision-Making - Responsible AI Use - Communication Skills - Problem-Solving.