

Quiz Grade: 90.0% (A)

Quiz Submission

Artificial Intelligence in Action: Applications Transforming the Modern World

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Course Information

Course Title: Artificial Intelligence in Action: Applications Transforming the Modern World
Course Code: LCAIN 214
Credit Hours: 3

Quiz Questions, Student Answers, and Correct Answers

Question 1 of 10

Multiple Choice Question

What is Artificial Intelligence (AI)?

Available Options:

(A) A. The study of human intelligence and thought processes

(B) B. The creation of intelligent machines that can think and act like humans ← STUDENT SELECTED ← CORRECT ANSWER

(C) C. The use of computers to solve complex problems

(D) D. A software system that automates tasks

Student's Answer: Option B: B. The creation of intelligent machines that can think and act like humans

Correct Answer: Option B: B. The creation of intelligent machines that can think and act like humans

Question 2 of 10

Multiple Choice Question

Which of the following is NOT a real-world application of AI?

Available Options:

(A) A. Virtual personal assistants like Siri and Alexa

(B) B. Self-driving cars

(C) C. Social media platforms ← STUDENT SELECTED ← CORRECT ANSWER

(D) D. Predictive maintenance in manufacturing

Student's Answer: Option C: C. Social media platforms

Correct Answer: Option C: C. Social media platforms

Question 3 of 10

Text Answer Question

What is the main objective of this course?

Student's Answer:

To explore how artificial intelligence is applied in real-world industries to solve practical problems, automate tasks, and transform modern society.

Correct Answer:

To explore the various applications of AI and its impact on modern society

Question 4 of 10

Multiple Choice Question

Which of the following is NOT a characteristic of Artificial Intelligence?

Available Options:

(A) A. Creativity

(B) B. Emotion ← STUDENT SELECTED ← CORRECT ANSWER

(C) C. Learning

(D) D. Automation

Student's Answer: Option B: B. Emotion

Correct Answer: Option B: B. Emotion

Question 5 of 10

Text Answer Question

What is the difference between narrow AI and general AI?

Student's Answer:

Narrow AI is an expert at one job. AlphaGo can beat the world champion at Go, but it can't check the weather, drive a car, or write a poem. General AI would have human-level adaptability, reasoning, self-awareness, and problem-solving skills across any context.

Correct Answer:

Narrow AI is programmed to perform specific tasks, while general AI has the ability to learn and perform a wide range of tasks like a human

Question 6 of 10

Multiple Choice Question

Which field of study heavily influences the development of AI?

Available Options:

(A) A. Psychology

(B) B. Philosophy

(C) C. Mathematics ← STUDENT SELECTED ← CORRECT ANSWER

(D) D. Sociology

Student's Answer: Option C: C. Mathematics

Correct Answer: Option C: C. Mathematics

Question 7 of 10

Multiple Choice Question

What is the goal of natural language processing (NLP)?

Available Options:

(A) A. To understand and interpret human language ← STUDENT SELECTED ← CORRECT ANSWER

(B) B. To create natural, human-like language for AI to use

(C) C. To translate languages in real-time

(D) D. To automate communication between machines

Student's Answer: Option A: A. To understand and interpret human language

Correct Answer: Option A: A. To understand and interpret human language

Question 8 of 10

Text Answer Question

What is the importance of machine learning in AI?

Student's Answer:

Machine learning (ML) is the primary engine behind modern artificial intelligence. Without it, AI systems would be rigid, rule-bound software that could only do exactly what a human explicitly programmed them to do. Here is why machine learning is so important to AI: 1. Enables Adaptability and Growth Traditional software relies on hard-coded rules ("if X, then do Y"). Machine learning allows AI systems to analyze data, identify patterns, and learn from experience. This means the AI improves its accuracy over time without needing a programmer to rewrite its code. 2. Handles Unstructured and Complex Data Humans naturally process messy inputs like spoken words, handwritten text, medical scans, and facial features. Machine learning enables computers to make sense of this unstructured data—powering technologies like speech recognition, computer vision, and language translation. 3. Scales to Massive Data Sets Modern problems generate far too much data for humans or manual logic to analyze. ML algorithms thrive on big data, uncovering hidden trends and making predictions (like fraud detection in banking or disease diagnosis in healthcare) in fractions of a second.

Correct Answer:

Machine learning allows AI systems to improve and adapt through experience, making them more efficient and accurate

Question 9 of 10

Multiple Choice Question

Which of the following is NOT a potential ethical concern surrounding AI?

Available Options:

(A) A. Job displacement

(B) B. Bias in decision-making

(C) C. Privacy and security

(D) D. Human dependence on machines ← STUDENT SELECTED ← CORRECT ANSWER

Student's Answer: Option D: D. Human dependence on machines

Correct Answer: Option D: D. Human dependence on machines

Question 10 of 10

Text Answer Question

How has AI impacted the healthcare industry?

Student's Answer:

AI is transforming healthcare by speeding up diagnoses, personalizing treatments, and removing administrative burdens from medical staff. Here are the primary areas where AI is making the biggest impact: 1. Faster & More Accurate Diagnostics Medical Imaging: Computer vision models analyze X-rays, MRIs, and CT scans to detect tumors, fractures, or early signs of diseases (like diabetic retinopathy) often faster and with comparable accuracy to human radiologists. Early Pathology: AI algorithms analyze tissue samples and blood work to spot cellular anomalies long before symptoms appear. 2. Accelerated Drug Discovery Target Identification: Traditionally, bringing a new drug to market takes 10–15 years and billions of dollars. AI models can simulate chemical interactions and predict how molecules will behave in seconds, cutting early-stage research time down from years to months. 3. Personalized Medicine & Treatment Plans Genomic Analysis: AI processes vast amounts of genetic data alongside patient histories to recommend tailored cancer treatments (oncology) rather than one-size-fits-all therapies. 4. Administrative & Operational Efficiency Clinical Documentation: Natural Language Processing (NLP) transcribes doctor-patient conversations in real time, automatically filling out Electronic Health Records (EHR) so physicians spend less time doing paperwork and more time with patients. Predictive Hospital Operations: Machine learning models forecast patient admission rates, optimizing bed availability and ICU staffing.

Correct Answer:

AI has improved diagnostics, drug development, and patient care through data analysis and predictive modeling

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