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Final Exam

Question 1

1/1 point (graded)

1.

Which of the following is NOT a good way to define AI?

- ☐ AI is the application of computing to solve problems in an intelligent way using algorithms.
- ☒ AI is all about machines replacing human intelligence. ✓
- ☐ AI is the use of algorithms that enable computers to find patterns without humans having to hard code them manually.
- ☐ AI is Augmented Intelligence and is not intended to replace human intelligence rather extend human capabilities.

Answer

Correct:

While AI can involve simulation or imitation of intelligent human behavior, it is not solely about machines having human intelligence. It also involves machines augmenting human intelligence by extending human capabilities.

Submit

You have used 1 of 2 attempts

Question 2

1/1 point (graded)

2.

Note: Make sure you select all of the correct options—there may be more than one!

Which of the following are attributes of Strong or Generalized AI?

- ☒ Perform independent tasks
- ☒ Learn new tasks to solve new problems
- ☐ Operate with human-level consciousness
- ☒ Teach itself new strategies



Answer

Correct:

Strong or Generalized AI can perform independent tasks and teach itself new strategies to solve new problems.

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You have used 2 of 2 attempts

Question 3

1/1 point (graded)

3.

Advances in the field of Computer Vision make which of the following possible?

- ☐ Real-time transcription
- ☐ On-demand online tutors
- ☒ Detecting cancerous moles in skin images ✓
- ☐ Detecting fraudulent transactions

Answer

Correct:

Computer vision algorithms are helping doctors arrive at more accurate preliminary diagnoses. AI-powered advancements in this technology make it possible to find symptoms in X-Ray and MRI scans and even detect cancerous moles in skin images.

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Question 4

1/1 point (graded)

4.

Which of these is currently NOT an application of Collaborative Robots or Cobots?

- ☐ Robots helping humans lift heavy containers
- ☐ Robots helping move items on shelves for stocking purposes
- ☐ Robots assisting or replacing humans in jobs that may be dull, dangerous, ineffective or inefficient when done by humans
- ☒ Personal use in the home such as doing the laundry and cooking for example ✓

Answer

Correct:

Collaborative robots being used in homes to support us such doing laundry independently is certainly a future possibility but not yet a reality.

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You have used 1 of 2 attempts

Question 5

1/1 point (graded)

5.

Note: Make sure you select all of the correct options—there may be more than one!

Which of the following are applications of Artificial Intelligence in action?

- ☒ IBM Watson utilizing its information retrieval and natural language understanding capabilities to win the Jeopardy game show against its human competitors.
- ☒ Watson analyzing Grammy nominated song lyrics over a 60 year period and categorizing them based on their emotion.
- ☒ Assisting patients with neurological damage by detecting patterns in massive movement related datasets and using robots to trigger specific movements in the human body to create new neural pathways in the brain.
- ☒ Law enforcement authorities using facial recognition algorithms to identify suspects in multiple streams of video footage

**Answer**

Correct: Correct! All the above are application of Artificial Intelligence in action.

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You have used 1 of 2 attempts

Question 6

1/1 point (graded)

6.

Which of these statements is true?

- ☐ Data Science is a subset of AI that uses machine learning algorithms to extract meaning and draw inferences from data
- ☒ Deep Learning is a specialized subset of Machine Learning that uses layered neural networks to simulate human decision-making ✓
- ☐ Artificial Intelligence and Machine Learning refer to the same thing since both the terms are often used interchangeably
- ☐ AI is the subset of Data Science that uses Deep Learning algorithms on structured big data

Answer

Correct:

Deep Learning enables machines to continuously learn on the job and improve the quality and accuracy of results by determining whether decisions were correct.

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You have used 1 of 2 attempts

Question 7

0/1 point (graded)

7.

Which of the following is NOT an attribute of Machine Learning?

- ☐ Takes data and rules as input and uses these inputs to develop an algorithm that will give us an answer
- ☒ Takes data and answers as input and uses these inputs to create a set of rules that determine what the Machine Learning model will be ✖
- ☐ Machine Learning defines behavioral rules by comparing large data sets to find common patterns
- ☐ Machine Learning models can be continuously trained

Answer

Incorrect:

Machine Learning uses computer algorithms to analyze data and make intelligent decisions by defining behavioral rules based on what it has learned, without being explicitly programmed. These algorithms continue to learn on the job.

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You have used 2 of 2 attempts

Question 8

1/1 point (graded)

8.

Note: Make sure you select all of the correct options—there may be more than one!

Which of these are some of the key fields of application for AI?

☒ Natural Language

☒ Computer Vision

☒ Speech

☒ Self Driving Vehicles



Answer

Correct:

Correct! Some of the most common application areas of AI include Natural Language Processing, Speech, and Computer Vision. Natural Language Processing enables machines to understand natural language. Computer Vision enables machines to gain understanding from digital images and video sequences and perform tasks like object identification. Speech-to-text and Speech Synthesis make it possible for machines to understand human speech and convert it to text, and also for machines to speak as humans do. Self Driving Vehicles can employ all of these AI disciplines but most importantly Computer Vision to identify objects, avoid obstacles and navigate.

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Question 9

1/1 point (graded)

9.

Which of these activities is NOT required in order for a neural network to synthesize human voice?

☐ Ingest numerous samples of a person's voice until it can tell whether a new voice sample belongs to the same person

☒ Deconstruct sentences to decipher the context of use ✓

- ☐ Generate audio data and run it through the network to see if it validates it as belonging to the subject
- ☐ Continue to correct the sample and run it through the classifier, repetitively, till an accurate voice sample is created

Answer

Correct:

Deconstructing sentences to decipher the context of use is a feature of Natural Language Processing, not Speech Synthesis.

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You have used 1 of 2 attempts

Question 10

1/1 point (graded)

10.

Which one of these ways is NOT how AI learns?

- ☐ Reinforcement Learning
- ☒ Proactive Learning ✓
- ☐ Supervised Learning
- ☐ Unsupervised Learning

Answer

Correct: AI learns in three different ways - Supervised, Unsupervised, and Reinforcement Learning.

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Question 11

1/1 point (graded)

11. What are some of the ethical concerns around artificial intelligence?

Note: Make sure you select all of the correct options—there may be more than one!

- ☒ Racial, gender or other types of bias.
- ☒ Loss of jobs due to AI replacing workers performing repetitive tasks.
- ☒ Concern about the trustworthiness of decision-making supported by AI systems.
- ☒ Privacy, for example, as human faces are photographed and recognized in public spaces.
- ☐ The necessity for any user of an AI system to have a high level of computer literacy.



Answer

Correct: Correct! Concerns about AI include:

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Question 12

1/1 point (graded)

12.

Which of the following are examples of bias in an AI system?

- ☐ Facial recognition systems performing well for individuals of all skin tones.
- ☒ Image recognition systems associating images of kitchens, shops, and laundry with women rather than men. ✓
- ☐ Customers not being aware that they are interacting with a chatbot on a company website.
- ☐ AI systems in call centers providing context sensitive assistance to staff.

Answer

Correct:

One example of bias in an AI system is an image recognition system associating images of kitchens, shops, and laundry with women rather than men.

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You have used 1 of 2 attempts

Question 13

1/1 point (graded)

13.

One approach that helps developers avoid unintentionally creating bias in AI systems is:

☒ Using a wide variety of appropriately diverse data for training. ✓

☐ Using highly specific training data from a narrow range.

☐ Not using any training data.

☐ None of the above.

Answer

Correct:

Using a wide variety of appropriately diverse data for training helps to avoid bias in AI systems.

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You have used 1 of 2 attempts

Question 14

1/1 point (graded)

14.

'Ethics in artificial intelligence is:'

- ☒ Something that we need to apply today. ✓
- ☐ Something that somebody else is going to do in the future.
- ☐ Something that is not an issue.
- ☐ Something that is entirely solved in current AI systems.

Answer

Correct:

Ethics in artificial intelligence is not something that somebody else is going to do in the future, it's something we need to apply today.

Submit

You have used 1 of 2 attempts

Question 15

1/1 point (graded)

15.

How many new opportunities and job roles does the World Economic Forum expect that AI will create in the next few years?

- ☒ 133 million ✓
- ☐ 7 million
- ☐ 48 million
- ☐ 165 million

Answer

Correct:

The World Economic Forum expects that 133 million jobs will be generated by AI in the next few years.

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