🏠 Course / Module 1 - What is AI? Applications and Examples of AI / Module 1 - Graded Quiz

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Graded Quiz - Module 1

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Quiz due Feb 25, 2021 21:12 IST [Completed]

Graded Question 1

1/1 point (graded)
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 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.

🔘 AI is all about machines replacing human intelligence.

✔

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

Graded Question 2

1/1 point (graded)
Which of the following is an attribute of Strong or Generalized AI?

🔘 Perform independent tasks

⚪ Operate with human-level consciousness

⚪ Cannot teach itself new strategies

⚪ Can perform specific tasks, but not learn new ones.

✔

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

Graded Question 3

1/1 point (graded)

AI is the fusion of many fields of study. Which of these fields, along with Computer Science, plays a role in the application of AI?

- ◯ Statistics
- ◯ Philosophy
- ◉ All responses are correct
- ◯ Mathematics

✔

Answer
Correct:
AI is the fusion of all of these fields of study, and more. While Philosophy provides guidance on intelligence and ethical considerations in the application of AI, Mathematics and Statistics help determine viable learning models and measure performance.
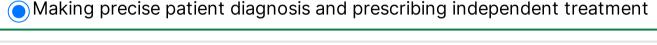
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Graded Question 4

1/1 point (graded)

Which of these is NOT a current application of AI?

- ◯ Classifying rock samples to identify best places to drill for oil
- ◉ Making precise patient diagnosis and prescribing independent treatment
- ◯ Self-Driving vehicles utilizing Computer Vision to navigate around objects
- ◯ Collaborative Robots helping humans lift heavy containers

✔

Answer
Correct:
In Healthcare, while AI is being used to support doctors arrive at more accurate preliminary diagnoses, it is not yet being used to replace one-on-one interactions between doctors and patients.

Submit   You have used 2 of 2 attempts

Graded Question 5

1/1 point (graded)

Natural Language AI algorithms that learn by example are the reason we can talk to machines and they can talk back to us.

- ◉ True
- ◯ False

✓

Answer
Correct:
The Natural Language Processing and Natural Language Generation capabilities of AI make it possible for machines and humans to interact with each other using natural language. Examples of this include Watson, Alexa, Siri, Cortana, and Google Assistant.

Submit   You have used 1 of 1 attempt

Graded Question 6

1/1 point (graded)
Advances in the field of Computer Vision make which of the following possible?

◯ Detecting fraudulent transactions

◯ On-demand online tutors

🔘 Detecting cancerous moles in skin images

◯ Real-time transcription

✓

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.
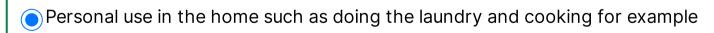
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Graded Question 7

1/1 point (graded)
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.

Submit   You have used 1 of 2 attempts

Graded Question 8

1/1 point (graded)
Which of the following aspects involved in converting the stethoscope into a digital device to

support patient diagnoses involves the use of AI?

○ Sending digital signals to a mobile device with a machine learning app via bluetooth

○ Graphing heart beat data on the mobile device allowing a physician to spot trends

○ Inserting a digitizer into the stethoscope tube to convert the analog sound of the heart beat into a digital signal

◉ An app on the mobile device that applies learnings from previous diagnosis data to assist the physicians in their current diagnoses

✔

Answer
Correct:
The app that uses machine learning algorithms trained on previous diagnosis data to suggest diagnosis and assist the physician in their findings is very much an application of AI.

Submit   You have used 1 of 2 attempts

Graded Question 9

1/1 point (graded)
Which of the following are applications of Artificial Intelligence in action?

- A. IBM Watson utilizing its information retrieval capabilities to provide technical information to oil and gas company workers.

- B. Watson analyzing Grammy nominated song lyrics over a 60-year period and categorizing them based on their emotions.

- C. 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.

- D. Law enforcement authorities using facial recognition algorithms to identify suspects in multiple streams of video footage

○ Only option A is correct

○ Only options A, B and C are correct

○ None of the options are correct

◉ All of the options are correct

✔

Answer
Correct: Correct

Submit   You have used 1 of 2 attempts

Graded Question 10

1/1 point (graded)
Which of the following is NOT a way that AI learns?

- ○ Unsupervised learning
- ◉ Intuitive Learning
- ○ Reinforcement Learning
- ○ Supervised Learning

✔

Answer
Correct:
AI learns by examining examples to create machine learning models based on provided inputs and desired goals. And it does this in three different ways - Supervised, Unsupervised, and Reinforcement Learning.

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