

1. What are examples of AI applications in your everyday life? Select all that apply.

1 / 1 point

☒ Product recommendations on an ecommerce app / site.



A recommendation engine uses AI to make recommendations based on your previous purchases or other information.

☒ A smart speaker responding to your request to play a song.



A smart speaker uses AI to interpret your verbal command and search for a song or other information you request.

☒ A search engine in an app or on the internet.



A search engine uses AI to quickly identify information or resources that may be relevant to your search criteria.

2. Which are examples of AI for Good projects? Select all that apply.

1 / 1 point

☒ Identifying illegal mining activities in satellite imagery.



Identifying illegal mining activities can help protect the environment and local communities.

☐ Automatic face recognition.

☒ Helping to inform medical diagnoses based on analysis of images, audio recordings, or other data.



AI can be used to help with diagnosis of various diseases.

☒ Predicting wind energy using historical data and weather forecasts.



Making reliable predictions of wind energy can make wind a more viable alternative to fossil fuels.

3. What is the appropriate description of the "do no harm" principle as applied in AI for Good projects?

1 / 1 point

☐ On balance, those impacted by a project are more likely to have benefited than to have been harmed.

☐ According to key metrics, you can show a measurable net improvement to some problem or scenario.

☒ Everyone impacted by a project is left improved or unchanged in their status.



That's right. It is not enough to show an improvement to some problem or metric of interest. You need to ensure that everyone impacted by the project is not harmed.

4. Which of the following would be appropriate statements about the capabilities of AI? Select all that apply.

1 / 1 point

☒ AI can perform very well on some specific and well defined tasks.



AI can achieve very good performance on some specific and well defined tasks.

☒ The term "AI" refers to a computer program or algorithm that is capable of making decisions or performing inferences based on patterns in data.



AI, at its core, relies on algorithms and computational models that process data to recognize patterns and generate predictions.

☒ In many cases, AI capabilities do not add value as a part of a potential solution.



AI does not always add value to the solution.

5. Which of the following is a correct statement about how supervised machine learning works?

1 / 1 point

- ☐ Supervised learning is a form of machine learning where a human developer “supervises” or manually adjusts an algorithm during training.
- ☒ Supervised machine learning is where an algorithm is trained to learn the mapping from some set of inputs to a particular set of outputs.
- ☐ AI is a subfield of supervised machine learning.

✓ **Correct**
Top work!

6. What should be your default when it comes to storing or publishing data that contains personally identifying or private information?

1 / 1 point

- ☒ As a default, you should not store or publish personal or private information.
- ☐ As a default, you should store personal or private information securely and not publish it.
- ☐ As a default, you should not store or publish any information that was shared with you privately but it's ok to store or republish data containing personal or private information that was previously made public, like social media posts.

✓ **Correct**
Well done! Storing or publishing any personal information, even if it is or was already publicly available before, should be avoided to adhere to the do no harm principle.

7. What are some key considerations when it comes to employing the “do no harm” principle in your projects? Select all that apply.

1 / 1 point

- ☐ Define clear performance metrics for your AI model by which you will measure the success of your project.
- ☒ Consider possible negative outcomes in the event that your project fails or even if it achieves expected performance.

✓ **Correct**
You should always keep in mind what the impact would be if your project fails and consider all possible outcomes if your project is successful.

- ☒ Do not store or publish personally identifying or other private, sensitive or proprietary information.

✓ **Correct**
Any personal data could potentially be harmful if misused, thus it is better to not store it unless absolutely necessary and with the appropriate permissions.

- ☒ Consider whether your project could negatively impact someone who would not otherwise be harmed.

✓ **Correct**

8. What are some inputs and outputs that could be used in a supervised machine learning application? Select all that apply.

1 / 1 point

- ☒ Inputs of digital images and outputs whether or not the image contains a pedestrian.

✓ **Correct**
That's right! By showing your model examples of an image and label, in this case, "pedestrian" or "not pedestrian," you can *supervise* or train the model to recognize pictures of pedestrians. This is an example of the **image recognition** application of supervised machine learning.

- ☒ Inputs of text in one language and outputs of text in another language.

✓ **Correct**
Good job! This is an example where you have an input A associated with an output B. This is an example of the **machine translation** application of supervised machine learning.

- ☒ Inputs of historical data including things like hours of direct sunlight and solar panel sensor measurements and outputs of power generated from a solar power installation.

✓ **Correct**
Fantastic! This is an example where you have an input A associated with an output B. This is an example of the **prediction** application of supervised machine learning..

9. Data is at the heart of every AI project. What are some key considerations regarding data that you have to think about when building your AI solution? Select all that apply.

0.75 / 1 point

☒ Data security.

 **Correct**

Good job! Store data securely to ensure that personally identifiable information (PII) or proprietary information does not fall into the wrong hands.

☒ Data availability.

 **Correct**

Yes! Without access to data, many AI projects would not be possible.

☒ Data privacy.

 **Correct**

Fantastic! Remember the “do no harm” principle and default to private data practices.

☐ The quality and quantity of data required for your project

You didn't select all the correct answers

10. As presented in this course, AI for good projects include the use of AI to prevent, mitigate or resolve problems affecting human life or the environment.

1 / 1 point

☐ False

☒ True

 **Correct**

This is the goal of projects presented in these courses.