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1. Which of the following statements correctly describe supervised and unsupervised machine learning? Select all that apply. 0.75 / 1 point

☒ Data professionals use supervised machine learning for prediction.

☒ Correct

☐ Supervised machine learning uses algorithms to analyze and cluster unlabeled datasets.

☒ Supervised machine learning uses labeled datasets to train algorithms to classify or predict outcomes.

☒ Correct

☐ In unsupervised machine learning, data professionals ask the model to give them information without telling the model what the answer should be.

You didn't select all the correct answers

2. Fill in the blank: In the process of _____, policies will change depending on whether a reward or punishment is received. 1 / 1 point

☒ reinforcement learning

☐ deep learning

☐ quality assurance

☐ artificial intelligence

☒ Correct

3. A data professional at a construction company works on a task involving continuous variables. Which of the following variables might be part of the project dataset? Select all that apply. 1 / 1 point

☒ The height of a skyscraper

☒ Correct

☒ The age of a building

☒ Correct

☒ The weight of a concrete block

☒ Correct

☐ The number of pallets on a truck

4. Which of the following statements accurately describe content-based filtering? Select all that apply.

0.75 / 1 point

☒ Content-based filtering makes comparisons based on an item's attributes.

☒ Correct

☐ Content-based filtering requires information from other users to work properly.

☒ Content-based filtering can map users and items in the same space and then recommend things that are closest to a user's preferences.

☒ Correct

☐ Content-based filtering is ineffective at making recommendations across content types.

You didn't select all the correct answers

5. Fill in the blank: One benefit of collaborative filtering is that it can effectively _____ across content types.

1 / 1 point

- ☐ eliminate outliers
- ☒ make recommendations
- ☐ visualize data
- ☐ produce metadata

☒ Correct

6. A data professional is considering whether the data they are using to build a model is representative of the population. Which PACE stage does this scenario describe?

0 / 1 point

- ☐ Construct
- ☐ Analyze
- ☐ Execute
- ☒ Plan

☒ Incorrect

Review [the video about ethics in machine learning](#).

7. Which of the following statements accurately describe Python notebooks and scripts? Select all that apply.

0.75 / 1 point

- ☒ Data professionals often alternate between Python notebooks and scripts.
- ☒ Correct
- ☐ Python notebooks are executed by a computer without the need for human supervision.
- ☒ Python scripts are useful for pairing code with human-readable descriptions and outputs.
- ☒ This should not be selected
Review [the video about Python for machine learning](#).^[↗]
- ☒ Data professionals can use both Python notebooks and scripts to execute code.

☒ Correct

8. Fill in the blank: The data visualization package _____ is designed primarily for statistical visualization.

1 / 1 point

- ☐ Tableau
- ☒ Seaborn
- ☐ Plotly
- ☐ Matplotlib

☒ Correct

9. Fill in the blank: In a typical business, a data professional is most likely to request assistance from the _____ department to obtain preliminary information about a dataset.

1 / 1 point

- ☐ information technology
- ☐ marketing
- ☒ business intelligence
- ☐ sales

☒ Correct