✓ **Congratulations! You passed!**

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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.

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

✓ **Correct**

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

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

✓ **Correct**

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

○ artificial intelligence

⦿ reinforcement learning

○ quality assurance

○ deep learning

✓ **Correct**

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3. An analytics team at a college works on a task involving categorical variables. Which of the following variables might be part of the project dataset? Select all that apply.

1 / 1 point

☑ Teacher subject area expertise

✓ **Correct**

☐ Number of books in a classroom

☑ Student nationalities

✓ **Correct**

☑ Languages spoken at the college

✓ **Correct**

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

0.75 / 1 point

☑ Content-based filtering does not require information from other users to work properly.

✓ **Correct**

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

✓ **Correct**

☐ Content-based filtering can go beyond comparing items to recommending other things that match a user's preferences.

☐ Content-based filtering properties never have to be selected and mapped manually.

You didn't select all the correct answers

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5. Fill in the blank: One drawback of collaborative filtering is that the data has a lot of _____ values.

1 / 1 point

○ conflicting

⦿ missing

○ redundant

○ inaccurate

✓ **Correct**

---

6. A data professional is considering possible sources of data to use to build a predictive model. Which PACE stage does this scenario describe?

1 / 1 point

○ Execute

⦿ Plan

○ Construct

○ Analyze

✓ **Correct**

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7. Which of the following applications would be well-suited to the use of Python scripts? Select all that apply.

0.75 / 1 point

☐ A task pairs code with human-readable descriptions.

☐ A task that requires a human-readable output

☐ A task that requires a human-readable output

☑ A program that incorporates several files

> ✓ **Correct**

☑ A program that contains errors in need of debugging

> ✓ **Correct**

> You didn't select all the correct answers

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8. Fill in the blank: The data visualization package _____ is effective when creating presentations, such as designing a data visualization for an interactive dashboard.

1 / 1 point

○ Matplotlib

○ HTML

⦿ Plotly

○ Tableau

> ✓ **Correct**

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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

⦿ business intelligence

○ marketing

○ sales

○ information technology

> ✓ **Correct**