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TO PASS 80% or higher

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GRADE
100%

Pattern Recognition and Data Mining Best Practices: End of Module Quiz

LATEST SUBMISSION GRADE
100%

1. You are asked to build a recommendation engine for new products at an online retailer. Which of the following features is the **least likely** to be a protected attribute? Recall that a protected attribute is one that may contain privileged and unprivileged classes. **1 / 1 point**

- ○ age
- ○ gender identity
- ○ race
- ○ religion
- ◉ purchase history

Correct
Correct!

2. True/False. The API for the reweighting algorithm has a number of custom methods that will require you to consult the documentation to ensure appropriate use. **1 / 1 point**

- ○ True
- ◉ False

Correct
Correct!

3. Which outlier detection method is known to work well on high-dimensional data? **1 / 1 point**

- ○ Random Forests
- ○ Elliptic Envelope
- ○ One Class SVM
- ○ Isolation Forest
- ◉ Local Outlier Factor

Correct
Correct!

4. True/False. In an imbalanced dataset if the minority class represents less than 5% of all of the samples then outlier detection algorithms must be used in place of other supervised learning algorithms. **1 / 1 point**

- ○ True
- ◉ False

Correct
Correct!

5. Which clustering method can be readily applied to graphs? **1 / 1 point**

- ○ Gaussian mixture models
- ◉ Spectral clustering
- ○ Affinity Propagation
- ○ *k*-means
- ○ Dirichlet process Gaussian mixture models

Correct

Correct!

6. Which of the following clustering methods does not need to set the number of clusters? 1 / 1 point

- Gaussian mixture models
- Spectral clustering
- MiniBatch *k*-means
- *k*-means
- Dirichlet process Gaussian mixture models

Correct
Correct!

7. True/False. In the clustering case study, the suggested re-sampling methods drove a major improvement in model performance. 1 / 1 point

- True
- False

Correct
Correct!

8. True/False. In the context of customer profiling and the AAVAIL data set it makes sense to first perform a dimension reduction technique like PCA before running the model through a clustering estimator. 1 / 1 point

- True
- False

Correct
Correct!