Module 18 Quiz:

Streaming Data

- 1. Compared to general data, data preprocessing is much easier for streaming data.
- A. True
- B. False

Answer: B

Explanation: See lecture 18.2 slides

- 2. A 'sketch' can avoid storing and maintaining a large amount of data.
- A. True
- B. False

Answer: A

Explanation: See lecture 18.2 slides

- 3. In contrast to dimensionality reduction, feature selection does not apply transformations to the data, and thus, the features can still be interpreted.
- A. True
- B. False

Answer: A

Explanation: See lecture 18.2 slides

- 4. Which challenge will be involved during learning on streaming data?
- A. Building the relationship between data streams and time series
- B. Addressing the problem of dealing with partially and delayed labels
- C. Learning on imbalanced data streams
- D. Detecting anomalies from streaming data

Answer: ABCD

Explanation: See lecture 18.3 slides









- 5. Semi-supervised learning (SSL) is particularly relevant to streaming applications where data are abundant but labeled data may be rare.
- A. True
- B. False

Answer: A

Explanation: See lecture 18.3 slides

- 6. Learning systems on streaming data should be able to monitor their working conditions since they act in dynamic environments, where working conditions change and evolve.
- A. True
- B. False

Answer: A

Explanation: See lecture 18.4 slides

- 7. Which change is related to feature drift?
- A. Change in the values of a feature and their association with the class
- B. Change in the domain of features
- C. Change in the subset of features that are used to label an instance
- D. Change in learning system

Answer: ABC

Explanation: See lecture 18.4 slides

- 8. Hyperparameter tuning for streaming data analysis is time-consuming and labor-intensive.
- A. True
- B. False

Answer: A

Explanation: See lecture 18.4 slides





