MCQ questions for IBM Assessment:

1. Which of the following is NOT an application of machine learning in finance?

a) Predicting stock prices b) Fraud detection c) Personalized investment recommendations d) Crop yield forecasting

2. Which machine learning technique is best suited for time series data?

a) Decision trees b) Linear regression c) Support vector machines d) Recurrent neural networks

3. Which of the following is an example of supervised learning in finance?

a) Cluster analysis b) Principal component analysis c) Regression analysis d) Reinforcement learning

4. Which machine learning algorithm is most commonly used for credit risk modeling?

a) Decision trees b) Support vector machines c) Random forests d) Logistic regression

5. Which of the following is NOT a benefit of using machine learning for fraud detection?

a) Increased accuracy b) Reduced false positives c) Increased computational time d) Improved fraud detection rates

6. Which machine learning technique is best suited for predicting stock prices?

a) Decision trees b) Linear regression c) Support vector machines d) Recurrent neural networks

Answer: d) Recurrent neural networks

7. Which of the following is NOT an example of natural language processing in finance?

a) Sentiment analysis b) Language translation c) Text classification d) Chatbot automation

8. Which machine learning algorithm is most commonly used for anomaly detection in finance?

a) Decision trees b) Support vector machines c) Random forests d) Autoencoders

9. Which of the following is NOT a benefit of using machine learning for customer segmentation?

a) Increased accuracy b) Reduced costs c) Improved customer retention d) Increased processing time

10. Which of the following is an example of reinforcement learning in finance?

a) Predicting stock prices b) Fraud detection c) Automated trading d) Personalized investment recommendations

11. Which of the following is not a potential application of machine learning in healthcare?

    a. Predictive modeling of disease outcomes b. Personalized treatment recommendations c. Analysis of patient feedback surveys d. Diagnosis of medical conditions

12. Which of the following types of machine learning algorithms is best suited for prediction tasks?

    a. Supervised learning b. Unsupervised learning c. Reinforcement learning d. Deep learning

13. Which of the following is a potential use case for deep learning in healthcare?

    a. Predictive modeling of patient outcomes b. Diagnosis of medical conditions c. Personalized treatment recommendations d. All of the above

14. Which of the following is not a challenge associated with the application of machine learning in healthcare?

    a. Lack of high-quality data b. Limited interpretability of models c. Limited availability of computational resources d. Regulatory barriers

15. Which of the following is a potential benefit of using machine learning in healthcare?

    a. Improved diagnostic accuracy b. Reduced healthcare costs c. Improved patient outcomes d. All of the above