**1. What does AutoML stand for, and what does it automate?**

a) Automated Machine Learning; automates model selection, hyperparameter tuning, and feature engineering.

b) Automated Model Learning; automates data preprocessing and model deployment.

c) Advanced Machine Learning; automates data collection and visualization.

d) Automated Data Analysis; automates data cleaning and visualization.

**2. What are the primary objectives of AutoML?**

a) To complicate the machine learning workflow.

b) To accelerate the machine learning workflow and make it more complex.

c) To simplify and accelerate the machine learning workflow.

d) To complicate and slow down the machine learning workflow.

**3. Which platform hosts data science competitions?**

a) GitHub

b) Kaggle

c) Stack Overflow

d) LinkedIn

**4. Besides competitions, what other functions does this platform serve?**

a) Video streaming

b) Collaboration and learning resources

c) Social networking

d) Online shopping

**5. What type of dataset is MNIST?**

a) Text classification

b) Image classification

c) Time series forecasting

d) Speech recognition

**6. How many images are in the MNIST training set?**

a) 50,000

b) 60,000

c) 70,000

d) 80,000

**7. Why is the MNIST dataset widely used?**

a) Because it contains only one class of images.

b) Because it's extremely large.

c) Because it serves as a standard benchmark for evaluating image classification algorithms.

d) Because it's encrypted and secure.

**8. What types of models have achieved high accuracy on the MNIST dataset?**

a) Only traditional machine learning models

b) Only neural network models

c) Both traditional machine learning models and neural network models

d) Only reinforcement learning models

**9. Why do researchers and practitioners often use the MNIST dataset?**

a) Because it's outdated and irrelevant.

b) Because it's easy to find and download.

c) Because it's difficult to work with.

d) Because it's a starting point for exploring and experimenting with different machine learning algorithms and techniques.

**10. What makes the MNIST dataset ideal for educational purposes?**

a) Its complexity

b) Its accessibility and simplicity

c) Its lack of relevance

d) Its high computational requirements