

Name \_\_\_\_\_

## Exploring the World of Artificial Intelligence and Machine Learning

### Multiple Choice Questions

1. What is the primary goal of Artificial Intelligence (AI)?
  - a) To recognize patterns in data
  - b) To create machines that think like humans
  - c) To improve computer performance
  - d) To design algorithms
  
2. Which of the following is an example of Machine Learning (ML)?
  - a) A self-driving car
  - b) A virtual assistant like Siri
  - c) An email spam filter
  - d) A chess-playing computer program
  
3. How does Machine Learning (ML) differ from Artificial Intelligence (AI)?
  - a) ML aims to make computers think like humans, while AI focuses on specific tasks.
  - b) AI uses algorithms to learn from data, while ML encompasses a broader range of capabilities.
  - c) ML is more adaptable than AI.
  - d) AI is simpler and requires less computational power than ML.
  
4. Which of the following is NOT a characteristic of Artificial Intelligence (AI)?
  - a) The ability to adapt and learn from experience
  - b) Solving complex problems
  - c) Recognizing patterns and making predictions
  - d) Focusing on specific tasks through algorithms
  
5. What is the main purpose of Machine Learning (ML) algorithms?
  - a) To create complex AI systems
  - b) To make computers think like humans
  - c) To recognize patterns and improve performance through learning
  - d) To design virtual assistants

