#1. Which AI application uses algorithms to understand, interpret, and respond to user requests in natural language?

☐
Chatbots
☐
Expert Systems
☐
Robotics
☐
Data Mining
☐
Neural Networks

#2. What is the purpose of the term “Explainable AI” in artificial intelligence?

☐
To ensure AI systems' decisions and actions can be understood and explained by humans
☐
To increase computational speed
☐
To enhance accuracy
☐
To simulate human emotions
☐
To create virtual reality

#3. Which AI technique involves categorizing data into classes or groups based on their similarities?

☐
Clustering
☐

Regression
☐
Classification
☐
Association
☐
Reinforcement Learning

#4. What does the term “Bias” refer to in AI systems?

☐
Systematic error introduced by algorithms leading to unfair outcomes
☐
Processing speed of AI systems
☐
Memory capacity of AI systems
☐
Security protocols in AI systems
☐
Energy efficiency of AI systems

#5. Which AI approach focuses on enabling machines to understand, interpret, and generate human-like text?

☐
Natural Language Processing
☐
Machine Learning
☐
Expert Systems
☐
Neural Networks
☐
Genetic Algorithms

#6. What is the concept of AI that involves systems recognizing patterns in data and making predictions based on them?

☐
Predictive Analytics
☐
Decision Trees
☐
Expert Systems
☐
Genetic Algorithms
☐
Neural Networks

#7. Which AI technique involves training algorithms to find patterns in data and make decisions based on those patterns?

☐
Machine Learning
☐
Expert Systems
☐
Natural Language Processing
☐
Data Mining
☐
Reinforcement Learning

#8. What does the term “Overfitting” mean in the context of machine learning algorithms?

☐
Model performs well on training data but poorly on new, unseen data
☐
Model performs poorly on training data and new data

☐
Model performs equally well on all types of data
☐
Model is not affected by different datasets
☐
Model cannot make predictions

#9. Which AI technique is used for tasks such as image recognition and language translation?

☐
Deep Learning
☐
Expert Systems
☐
Natural Language Processing
☐
Data Mining
☐
Genetic Algorithms

#10. What is the concept of AI that allows systems to interpret and respond to emotions in human communication?

☐
Affective Computing
☐
Expert Systems
☐
Reinforcement Learning
☐
Machine Learning
☐
Natural Language Processing

#11. Which AI application uses algorithms to enable machines to understand and interpret human handwriting?

☐
Optical Character Recognition (OCR)
☐
Chatbots
☐
Expert Systems
☐
Speech Recognition
☐
Machine Translation

#12. What is the main purpose of evolutionary algorithms in AI?

☐
To find approximate solutions to optimization and search problems
☐
To execute complex algorithms
☐
To process natural language
☐
To simulate human emotions
☐
To create virtual reality

#13. Which AI technique involves algorithms that can learn from unsupervised data, identifying hidden patterns or intrinsic structures?

☐
Unsupervised Learning
☐
Supervised Learning

☐
Reinforcement Learning
☐
Deep Learning
☐
Genetic Algorithms

#14. What is the goal of Natural Language Generation (NLG) in AI?

☐
To produce human-like text based on given data or prompts
☐
To recognize patterns in data
☐
To process numerical data
☐
To simulate human emotions
☐
To execute complex algorithms

#15. Which AI approach is used for tasks like facial recognition and fingerprint analysis?

☐
Computer Vision
☐
Natural Language Processing
☐
Machine Learning
☐
Expert Systems
☐
Genetic Algorithms

#16. What is the concept of AI that allows machines to learn from experience, adjust to new inputs, and perform human-like tasks?

☐
Machine Learning
☐
Expert Systems
☐
Reinforcement Learning
☐
Neural Networks
☐
Genetic Algorithms

#17. Which AI technique involves algorithms inspired by the structure and functioning of the human brain’s neural networks?

☐
Neural Networks
☐
Expert Systems
☐
Genetic Algorithms
☐
Machine Learning
☐
Deep Learning

#18. What is the purpose of expert systems in AI?

☐
To emulate the decision-making abilities of a human expert in a specific domain
☐
To process natural language

☐
To recognize patterns in data
☐
To simulate human emotions
☐
To create virtual reality

#19. Which AI technique focuses on algorithms that can mimic human reasoning and decision-making processes?

☐
Expert Systems
☐
Machine Learning
☐
Genetic Algorithms
☐
Neural Networks
☐
Reinforcement Learning

#20. What is the concept of AI that involves teaching machines to perform tasks without explicit programming?

☐
Machine Learning
☐
Expert Systems
☐
Neural Networks
☐
Deep Learning
☐
Reinforcement Learning

Next

Results