

Fundamentals of AI

1. What does AI stand for?
A. Advanced Integration
B. Artificial Intelligence
C. Automated Interface
D. Applied Informatics
Answer: B
2. The main goal of Artificial Intelligence is to:
A. Store large amounts of data
B. Improve internet speed
C. Make machines perform intelligent tasks
D. Design computer hardware
Answer: C
3. Which of the following is a core component of AI?
A. Cloud Storage
B. Machine Learning
C. Web Hosting
D. Network Cabling
Answer: B
4. Early developments in AI mainly focused on:
A. Social media analytics
B. E-commerce platforms
C. Game playing and logical problem solving
D. Mobile applications
Answer: C
5. Narrow AI is also called:
A. Artificial Superintelligence
B. Strong AI
C. General AI
D. Weak AI
Answer: D
6. General AI refers to:
A. AI with human-like intelligence
B. AI that performs only one task
C. AI limited to gaming
D. AI used only in robotics
Answer: A
7. Artificial Superintelligence (ASI) means:
A. AI equal to humans
B. AI that surpasses human intelligence
C. AI used in education
D. AI for automation only
Answer: B
8. Which of the following is an example of Narrow AI?
A. Self-aware robot
B. Artificial Superintelligence
C. Voice assistant
D. Human brain
Answer: C

9. AI is applied in which sector?
- A. Healthcare
 - B. Finance
 - C. Transportation
 - D. All of the above
- Answer: D
10. One major ethical concern in AI is:
- A. Data privacy
 - B. Faster processing speed
 - C. Increased storage
 - D. Hardware cost
- Answer: A
11. A key limitation of AI is that it:
- A. Thinks like humans
 - B. Has emotions
 - C. Lacks human judgment and emotions
 - D. Learns without data
- Answer: C
12. Statistics is mainly used to:
- A. Design networks
 - B. Analyze and interpret data
 - C. Build websites
 - D. Replace algorithms
- Answer: B
13. In AI/ML, statistics helps to:
- A. Remove features
 - B. Increase memory
 - C. Provide mathematical foundation for analysis
 - D. Build hardware
- Answer: C
14. Which of the following is a basic statistical measure?
- A. Router
 - B. Median
 - C. Compiler
 - D. Server
- Answer: B
15. Regression analysis is used to:
- A. Predict continuous values
 - B. Sort data
 - C. Encode categories
 - D. Delete records
- Answer: A
16. Simple regression uses:
- A. Multiple outputs
 - B. Many dependent variables
 - C. One independent variable
 - D. No variables
- Answer: C

17. Multiple regression involves:
- A. One feature only
 - B. More than one independent variable
 - C. Only categorical variables
 - D. No output variable
- Answer: B
18. Polynomial regression is suitable when the relationship is:
- A. Linear only
 - B. Constant
 - C. Random
 - D. Non-linear
- Answer: D
19. The first stage in the statistical process is:
- A. Data cleaning
 - B. Problem definition
 - C. Model evaluation
 - D. Deployment
- Answer: B
20. Data cleaning is important because it:
- A. Reduces model accuracy
 - B. Increases noise
 - C. Improves data quality
 - D. Deletes all errors automatically
- Answer: C
21. Exploratory Data Analysis (EDA) helps to:
- A. Deploy models
 - B. Understand data patterns
 - C. Replace regression
 - D. Encode categories
- Answer: B
22. Applying statistical models helps to:
- A. Remove datasets
 - B. Store data
 - C. Predict outcomes
 - D. Delete features
- Answer: C
23. Model evaluation is used to:
- A. Train the dataset
 - B. Increase bias
 - C. Check model performance
 - D. Collect new data
- Answer: C
24. Insights from statistical analysis help in:
- A. Random guessing
 - B. Decision-making
 - C. Hardware design
 - D. Data duplication
- Answer: B

25. Deployment means:

- A. Cleaning raw data
- B. Testing the dataset
- C. Using the model in real-world applications
- D. Removing variables

Answer: C