

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