

Multiple choice questions

1. What is the speed up that is achieved when searching an element in sorted vs. unsorted list?

- A) $O(N)/O(\log N)$
- B) $O(N)$
- C) $O(N \log N)$
- D) $O(1)$

Answer : A

2. Which library in python is used for machine learning?

- A) Seaborn
- B) SciPy
- C) Sklearn
- D) Statsmodels

Answer : C

3. Exploration Framework in EDA does not include

- A) Identify data
- B) Filter data
- C) Review data
- D) Modify data

Answer : D

4. Which of the following is an efficient way to access elements in a list?

- A) Looping over the list
- B) Using Iterators
- C) Using Generators
- D) Indexing and retrieving values

Answer : C

5. What are the three dimensions used to represent a color image in Python?

- A) Image height, Image width and color channel
- B) Red, Blue and Green channels
- C) Hue, Saturation and Lightness
- D) None of the above

Answer : A

6. In which of the following NLP does not apply?

- A) Text classification
- B) Caption Generation
- C) Speech recognition
- D) Image processing

Answer : D

7. Which of the following algorithms is used when the data set does not have golden class labels?

- A) Regression

B) K-Means
C) KNN
D) Neural Nets
Answer : B

8. Which of the following is not an activation function?
A) sigmoid
B) tanh
C) relu
D) threshold
Answer : D

True/False

1. Mercator projection distorts angle
Answer : False

2. Github is a distributed version control system
Answer : True

3. Clear data visualizations is most important for storytelling
Answer : False

4. Bayes theorem provides a way to revise existing predictions on new or additional event
Answer : True

5. PCA determines the features that discriminate the data set the most
Answer : True

6. Regression is used when the target value is categorical
Answer : False

7. In gradient descent if the slope of a point is positive, then we decrease the weight.
Answer : True