

- 1. What is the difference between a population and a sample in statistics?
- 2. How do you handle imbalanced data sets in classification problems?
- 3. What are some of the advantages and disadvantages of linear regression?
- 4. Explain the concept of regularization and how it helps to prevent overfitting.
- 5. What are some of the methods that you use to select the optimal number of clusters in k-means clustering?
- 6. How do you implement gradient descent and what are its variants?
- 7. What are some of the applications of natural language processing (NLP) in data science?
- 8. What are some of the common deep learning frameworks and libraries that you use or have used?
- 9. How do you perform feature engineering and feature selection in your data science projects?
- 10. What are some of the tools and platforms that you use to deploy and monitor your data science models?

- 1. How do you handle multicollinearity in linear regression?
- 2. What are some of the advantages and disadvantages of neural networks?
- 3. What are some of the common types of recommender systems and how do they work?
- 4. How do you implement a KNN classifier from scratch in Python?
- 5. What are some of the differences between SQL and NoSQL databases?
- 6. How do you perform sentiment analysis on text data?
- 7. What are some of the methods that you use to deal with class imbalance in classification problems?
- 8. How do you optimize the hyperparameters of a machine learning model?
- 9. What are some of the applications of computer vision in data science?
- 10. How do you perform anomaly detection on time series data?

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- 1. How do you handle skewed data in your data analysis?
- 2. What are some of the advantages and disadvantages of KNN algorithm?
- 3. What are some of the common types of activation functions and how do they affect the output of a neural network?
- 4. How do you implement a linear regression model from scratch in Python?
- 5. What are some of the differences between Hadoop and Spark frameworks?
- 6. How do you perform text summarization on text data?
- 7. What are some of the methods that you use to deal with noisy data in your datasets?
- 8. How do you tune the learning rate of a machine learning model?
- 9. What are some of the applications of image processing in data science?
- 10. How do you perform web scraping on data?

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