- 1. Explain the linear regression algorithm in detail.
- 2. What are the assumptions of linear regression regarding residuals?
- 3. What is the coefficient of correlation and the coefficient of determination?
- 4. Explain the Anscombe's quartet in detail.
- 5. What is Pearson's R?
- 6. What is scaling? Why is scaling performed? What is the difference between normalized scaling and standardized scaling?
- 7. You might have observed that sometimes the value of VIF is infinite. Why does this happen?
- 8. What is the Gauss-Markov theorem?
- 9. Explain the gradient descent algorithm in detail.
- 10. What is a Q-Q plot? Explain the use and importance of a Q-Q plot in linear regression.