

M.Sc. SY (IV Semester)
CCS 651 Data Analytics Assignment Questions

1. What is data analytics? What are the different types of data analytics?
2. What are the key steps in the data analysis process?
3. What are structured and unstructured data?
4. Why is data cleaning important?
5. How do you handle missing values in a dataset?
6. What are common data cleaning techniques?
7. Explain the concept of data normalization and standardization.
8. Why is data visualization important in analytics?
9. How would you visualize time-series data?
10. What are some common tools used for data analytics?
11. How does correlation analysis help in dimensionality reduction techniques like PCA?
12. How is regression analysis used in predictive modeling?
13. How does statistical clustering (e.g., K-Means) help in unsupervised learning?
14. What is autocorrelation, and how does it affect time series forecasting models?
15. What is sentiment analysis, and how does it work?
16. How network analysis is applied in social media analytics?
17. What is the difference between parametric and non-parametric tests?
18. How do you identify multicollinearity in a dataset?
19. What are common patterns that can be found in datasets?
20. How can clustering techniques are used to identify patterns in data?