

SHAKUNTALA KRISHANA INSTITUTE OF TECHNOLOGY KD-64

ASSIGNMENT-1

DATA SCIENCE AND MACHINE LEARNING

1. What is data science?
2. How do you differentiate between data science and data analytics?
3. Can you explain the data science process?
4. What are the key components of a data science project?
5. What programming languages are commonly used in data science?
6. What is the importance of data cleaning?
7. Can you explain the difference between supervised and unsupervised learning?
8. What is overfitting, and how can it be prevented?
9. What are some common algorithms used in machine learning?
10. How do you evaluate the performance of a model?
11. What is feature engineering?
12. Can you explain the concept of a confusion matrix?
13. What is the role of statistics in data science?
14. How do you handle missing data?
15. What are some ethical considerations in data science?