

SDM COLLEGE of Engineering Technology, Dharwad
Department of Computer Science & Engineering

Subject : Artificial Intelligence and Machine Learning Lab [22UCSL604]

Instructions:

- 1) Enter all the details of the first page: USN, Course Title, Course Code, Signature, Date .**
- 2) Do not carry any kind of hard drives inside the lab.**
- 3) Mobiles and smart watches are strictly prohibited.**
- 4) Do not carry micro Xerox or any kind of written materials to the exam.**
- 5) Wear your ID card compulsorily.**
- 6) No change of question is allowed**

Login Details:

IP Address:

Login ID & Password : Written on Sheet

1. Write a program to demonstrate the working of the decision tree based ID3 algorithm on a given data set and apply this knowledge to classify a new sample
2. Write a program to implement simple linear regression for the given data set data(Both) and apply this knowledge to classify a new sample
3. Write a program to implement k-Nearest Neighbor algorithm to classify the given data (Both)
4. Write a program to implement k-means clustering algorithm (Both) on the given data set.
5. Write a program to implement the naïve Bayesian classifier for a given data set. Compute the accuracy of the classifier and apply this knowledge to classify a new sample
6. Write a program to implement multiple linear regression for the given data set data(Both) and apply this knowledge to classify a new sample
7. Write a program to implement Support vector machine for the given data set data and apply this knowledge to classify a new sample
8. Write a program to implement Artificial Neural Network for the given data set data and apply this knowledge to classify a new sample
9. Write a program to solve 8-puzzle problem using A* algorithm.