MACHINE LEARNING LABORATORY [As per Choice Based Credit System (CBCS) scheme] (Effective from the academic year 2017 - 2018) SEMESTER – VII			
Subject Code	17CSL76		
Number of Lecture Hours/Week	01I + 02P	IA Marks	40
Total Number of Lecture Hours	40	Exam Marks	60
	CREDITS - 02	Exam Hours	03
Description (If any):			
 The programs can be implem For Problems 1 to 6 and 10, classes or APIs of Java/Pytho Data sets can (https://archive.ics.uci.edu/m Lab Experiments:	programs are to both	be developed without us	
Lab Experiments:	- databets.html) of	constructed by the stud	ents.
 Implement and demonstrate hypothesis based on a given set. CSV file. For a given set of training demonstrate the Candidate-I of all hypotheses consistent were algorithm. Use an appropriate knowledge toclassify a new set. Build an Artificial Neural algorithm and test the same ues. Write a program to implement. 	data examples steelimination algorith the training example the working the data set for buildingle. Network by in	ored in a .CSV file, in ithmto output a description of the decision tree decision tree in plementing the Bac	implement are ption of the see based ID and apply the
test data sets. 6. Assuming a set of document	Compute the accur	sian classifier for a sa racy of the classifier, co	ample training onsidering fev
6. Assuming a set of document Classifier model to perform the program. Calculate the agent	Compute the accurate that need to be nis task. Built-in J	sian classifier for a sa racy of the classifier, co classified, use the na ava classes/API can be	ample training few nive Bayesian used to write
test data sets. 6. Assuming a set of document Classifier model to perform the the program. Calculate the accommodel to demonstrate the diagram Data Set. You can use Java/Pyt 8. Apply EM algorithm to cluster set for clustering using k-Marketing using using k-Marketing using using k-Marketing using using using k-Marketing using	compute the accurate that need to be his task. Built-in Jaracy, precision, and Bayesian network gnosis of heart pathon ML library clara set of data stores.	classifier for a saracy of the classifier, conclassified, use the national ava classes/API can be and recall for your data salacients using standard I asses/API.	ample training few bive Bayesian used to write the data. Use this Heart Disease the same data
test data sets. 6. Assuming a set of document Classifier model to perform the program. Calculate the accordance of the program to construct a model to demonstrate the diagram Data Set. You can use Java/Pyt 8. Apply EM algorithm to cluste set for clustering using k-Mealgorithms and comment on the library classes/API in the program. 9. Write a program to implement	compute the accurate that need to be a stask. Built-in Juracy, precision, and Bayesian network and ML library claims a set of data store and a library of cluster and the start of cluster and the s	classifier for a saracy of the classifier, conclassified, use the national ava classes/API can be and recall for your data salactions using standard I asses/API. The din a .CSV file. Use a Compare the results of the compare the results of the compare of the co	ample training few bive Bayesian used to write et. data. Use this Heart Disease the same data of these two a/Python ML
6. Assuming a set of document Classifier model to perform the program. Calculate the accordance of the program to construct a model to demonstrate the diagram Data Set. You can use Java/Pyt 8. Apply EM algorithm to cluste set for clustering using k-Mealgorithms and comment on the library classes/API in the program of the program to implement data set. Print both correct and the be used for this problem	compute the accurate that need to be his task. Built-in Jaracy, precision, and Bayesian network gnosis of heart pathon ML library clara set of data store ans algorithm. The quality of cluster and the company of the c	classifier for a saracy of the classifier, conclassified, use the manava classes/API can be and recall for your data saracy of the classifier, considering medical attents using standard I asses/API. The din a .CSV file. Use the compare the results of the cring. You can add Java bour algorithm to classifier.	ample training few considering
6. Assuming a set of document Classifier model to perform the program. Calculate the accument the program. Calculate the accument of the program to construct a model to demonstrate the diagnost of the Data Set. You can use Java/Pyt. 8. Apply EM algorithm to cluste set for clustering using k-Mealgorithms and comment on the library classes/API in the program. 9. Write a program to implement data set. Print both correct and the used for this problem. 10. Implement the non-parametric fit data points. Select appropriate	compute the accurate that need to be his task. Built-in Jaracy, precision, and Bayesian network gnosis of heart pathon ML library clara set of data store ans algorithm. The quality of cluster and the computer of the comput	classifier for a saracy of the classifier, conclassified, use the national classified, use the national classes/API can be not recall for your data saractering medical stients using standard I classes/API. The din a .CSV file. Use the comparent of the results of the comparent of the results of the comparent of the classified in a .CSV file. Use the comparent of the results of the comparent of the classified in a .CSV file. Use the comparent of the results of the comparent of the classified in a .CSV file. Use the comparent of the classified in a .CSV file. Use the comparent of the classified in a .CSV file. Use the comparent of the classified in a .CSV file. Use the comparent of the classified in a .CSV file. Use the .CSV file. Use the classified in a .CSV file. Use the .CSV file. Use	ample training few bive Bayesian used to write the data. Use this Heart Disease the same data of these two a/Python ML assify the iris ty classes can
6. Assuming a set of document Classifier model to perform the program. Calculate the accument the program. Calculate the accument of the program to construct a model to demonstrate the diagnost of the Data Set. You can use Java/Pyt. 8. Apply EM algorithm to cluste set for clustering using k-Mealgorithms and comment on the library classes/API in the program. 9. Write a program to implement data set. Print both correct and the used for this problem.	compute the accurate that need to be his task. Built-in Jaracy, precision, and Bayesian network gnosis of heart pathon ML library clar a set of data store ans algorithm. The quality of cluster and the complex of the	classifier for a saracy of the classifier, conclassified, use the national classified, use the national classes/API can be not recall for your data saractering medical stients using standard I classes/API. The din a .CSV file. Use the comparent of the results of the comparent of the results of the comparent of the classified in a .CSV file. Use the comparent of the results of the comparent of the classified in a .CSV file. Use the comparent of the results of the comparent of the classified in a .CSV file. Use the comparent of the classified in a .CSV file. Use the comparent of the classified in a .CSV file. Use the comparent of the classified in a .CSV file. Use the comparent of the classified in a .CSV file. Use the .CSV file. Use the classified in a .CSV file. Use the .CSV file. Use	ample training few bridge Bayesian used to write the same data of these two a/Python ML assify the iris try classes can
6. Assuming a set of document Classifier model to perform the program. Calculate the accument the program. Calculate the accument of the program to construct a model to demonstrate the diagnost of the Data Set. You can use Java/Pyt. 8. Apply EM algorithm to cluste set for clustering using k-Mealgorithms and comment on the library classes/API in the program. 9. Write a program to implement data set. Print both correct and the used for this problem. 10. Implement the non-parametric fit data points. Select appropriate	compute the accurate that need to be his task. Built-in Jaracy, precision, and Bayesian network gnosis of heart pathon ML library clar a set of data store ans algorithm. The quality of cluster and the complex of the	classified, use the na ava classes/API can be and recall for your data so a considering medical attents using standard I asses/API. The din a .CSV file. Use a compare the results or	ample training possidering few dive Bayesian used to write the same data of these two ra/Python ML assify the iris ry classes can in order to graphs.

2. Design Java/Python programs for various Learning algorithms.

3. Apply appropriate data sets to the Machine Learning algorithms.

4. Identify and apply Machine Learning algorithms to solve real world problems. **Conduction of Practical Examination:**

- All laboratory experiments are to be included for practical examination.
- Students are allowed to pick one experiment from the lot.
- Strictly follow the instructions as printed on the cover page of answer script
- Marks distribution: Procedure + Conduction + Viva:15 + 70 +15 (100)

Change of experiment is allowed only once and marks allotted to the procedure part to

Dept. Of Computer Science & Engineering Alva's Institute of Engg. & Technology Mijar, MOODBIDRI - 574 225