# Lab Assignment 7 20 marks

|  |  |  |
| --- | --- | --- |
| CO 3 | Develop various classification and clustering techniques. | L4 |

Each question 4 marks.

#### Iris data is given. Analyze the Clusters in Iris data using various features using DBSCAN

#### Eps=0.8, minPts=19

Do the **Exploratory data analysis** on the data

1. Reading and Understanding the Data
2. Data Cleaning
3. Data Preparation
4. Model Building using **DBSCAN algorithm**
5. Final Analysis-
   1. What is the inference from the clusters formed?
   2. Find the clustering parameters
   3. Can we use DBSCAN for Outlier detection?

* Estimated number of clusters
* Estimated number of noise points
* Homogeneity
* Completeness
* V-measure
* Adjusted Rand Index
* Adjusted Mutual Information
* Silhouette Coefficient