Assignment 3

Machine Learning (**CS564**) Department of CSE, IIT Patna

Date:- 13-Sep-2019 **Deadline:-**21/09/2019

Instructions:

- 1. Markings will be based on the correctness and soundness of the outputs. Marks will be deducted in case of plagiarism.
- 2. Proper indentation and appropriate comments (if necessary) are mandatory.
- 3. You should zip all the required files and name the zip file as roll_no_of_all_group_members.zip, eg. 1501cs11_1201cs03_1621cs05.zip.
- 4. Upload your assignment (**the zip file**) in the following link: https://www.dropbox.com/request/BGhibCkCcr7SQdfiS4tc

For any queries regarding this assignment contact: Kamal Gupta(6396063109)

Dataset:

- 1. "Diabetes.arff" file contains the dataset.
- 2. Each row has 9 comma separated values where first 8 values represent a single datapoint (8 dim vector values). **Ignore the 9th value.**

Questions:

There are two parameters in DBSCAN algorithm:

- a. Eps: radius length
- b. minPts: minimum number of points required to form a cluster.
- 1. Implement DBSCAN algorithm and find number of clusters formed for eps = 2 and minPts = 5
- 2. For any one cluster, show its core point and border points.