Indian Institute of Space Science and Technology – Thiruvananthapuram

MA624 Advanced Machine Learning & MA644 Advanced Machine Learning Lab

Assignment-1

Date: 15-01-2024

1. Apply model based clustering on Data 1

   (a) Report the number of clusters and the technique used to find the number of clusters.

   (b) Plot the clusters.

   (c) Report the mean, co-variance matrix and prior probability corresponding to each cluster.

   (d) Assess the quality of the clusters.

2. Apply model based clustering on ECG data [UCR Time Series Classification and Clustering website]. Describe the experimental analysis.

Notes

- Assignment has to be written in latex.

- Last date of submission: 22-01-2024.

- **As far as assignments are concerned, students are expected to observe academic honesty and integrity. Though the students can collaborate and discuss, copying directly other students' assignment or allowing your own assignment to be copied constitute academic dishonesty and is highly discouraged.**