



Wavelength (nm) [Pb], Concentration = 0.01 MPP

An Autonomous Institution

Accredited by NBA – AKTE and Accredited by NAAC – DEC with A Grade
Approved by AKTE, New Delhi & Affiliated to Anna University, Chennai

COURSE NAME : MACHINE LEARNING

III YEAR /V SEMESTER

Unit 2 - SUPERVISED LEARNING

Topic 3: Linear Discriminant Analysis-Probabilistic Discriminative models



- Linear Discriminant Analysis (LDA) is a supervised learning algorithm used for classification tasks in machine learning. It is a technique used to find a linear combination of features that best separates the classes in a dataset.



- LDA works by projecting the data onto a lower-dimensional space that maximizes the separation between the classes. It does this by finding a set of linear discriminants that maximize the ratio of between-class variance to within-class variance. In other words, it finds the directions in the feature space that best separate the different classes of data.

