**Subject: Introduction to Machine Learning**

**Subject Code: CSE663 TR1**

**Semester: B.Tech CSE 3**

**Assignment 4**

1. Given a dataset comprising both spam and non-spam emails, outline the process of employing Support Vector Machines (SVM) for email classification. Discuss the role of hyperplanes and how to select the appropriate kernel function for this task.
2. To create a deep learning model for classifying images, design a Convolutional Neural Network (CNN) architecture. Detail the layers and their functions in the CNN designed for image classification.