

ML Lab Assignment 3 – Part 1

Build a Support Vector Machines (SVM) classifier to classify the iris dataset.

1. Perform a comparative analysis of SVM classifiers utilizing linear and sigmoid kernels for the classification task.
2. Plot the decision boundaries generated by each SVM kernel and analyse their effectiveness in separating the classes.
3. Evaluate the performance of each kernel by considering metrics such as accuracy, precision, recall, and F1-score.