

Assignment

Support Vector Machine



Two samples, $(0, 1, 1)$ and $(-1, 0, -1)$, are given. Kernel is $(\mathbf{x}_1 \cdot \mathbf{x}_2 + 1)^2$, and $C = \infty$. We want to find out decision boundary by SVM with kernel.

- A. Find α_1 and α_2 in dual form.
- B. Which class does $(1, 1)$ belong to?

Thank You