REPORT.pdf

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SVM.R

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1. *Repeat but use an SVM instead of a Naïve Bayesian classifier.*

For each experiment, compute the accuracy.
Also, report the average accuracy of the 10 experiments.

Table Containing Accuracies for 10 Experiments Using the Default SVM Kernel

Experiment	Accuracy
1	0.7922078
2	0.7532468
3	0.7922078
4	0.8311688
5	0.8181818
6	0.7662338
7	0.7012987
8	0.8701299
9	0.7402597
10	0.8571429

Average Accuracy = 0.7922077

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2. Change the value of the kernel from the default to the following values:
- linear
- polynomial
- radial basis
- sigmoid
Carry out 10 experiments using different samples and each of the kernels above.
Report only the average accuracy in each case.

Table Containing Average Accuracies Over 10 Experiments for Each SVM Kernel

Kernel	Average Accuracy of 10 Experiments
Linear	0.7922078
Polynomial	0.7233766
Radial Basis	0.7675325
Sigmoid	0.7415584