

Experiment - 8

Project Report.(23/CS/062)

Model Comparision (Validation Accuracy ..)

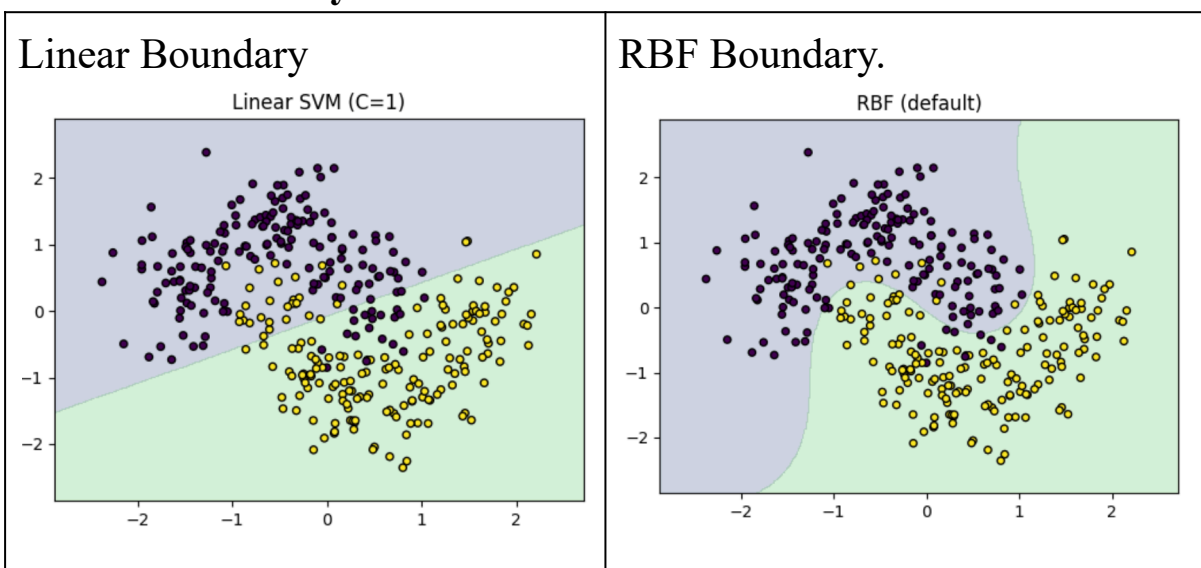
- For Linear , RBF and Poly.

	Model	Validation Accuracy
0	Linear (C=1)	0.840000
1	RBF (default)	0.946667
2	Poly (degree=3)	0.840000

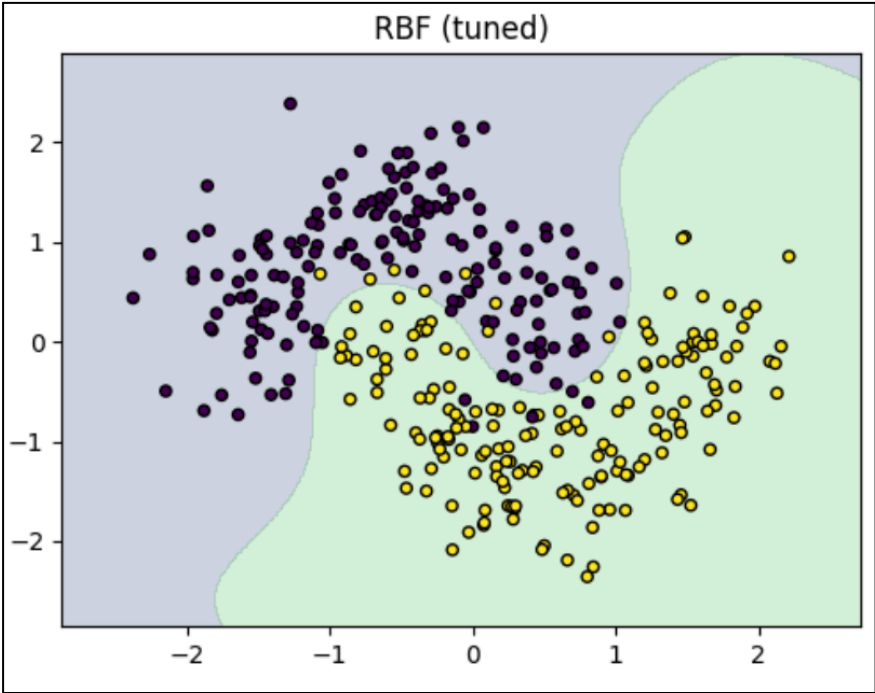
- Grid SearchCV.

Best Params: {'C': 1, 'gamma': 1, 'kernel': 'rbf'}
Best CV Accuracy: 0.9542857142857143

Decision Boundary Plots.



RBF Tuned (Best Boundary).



CONFUSION MATRIX.

Final tuned RBF accuracy: 0.9533333333333334

Classification report (Final tuned RBF):

	precision	recall	f1-score	support
0	0.95	0.96	0.95	75
1	0.96	0.95	0.95	75
accuracy			0.95	150
macro avg	0.95	0.95	0.95	150
weighted avg	0.95	0.95	0.95	150

