

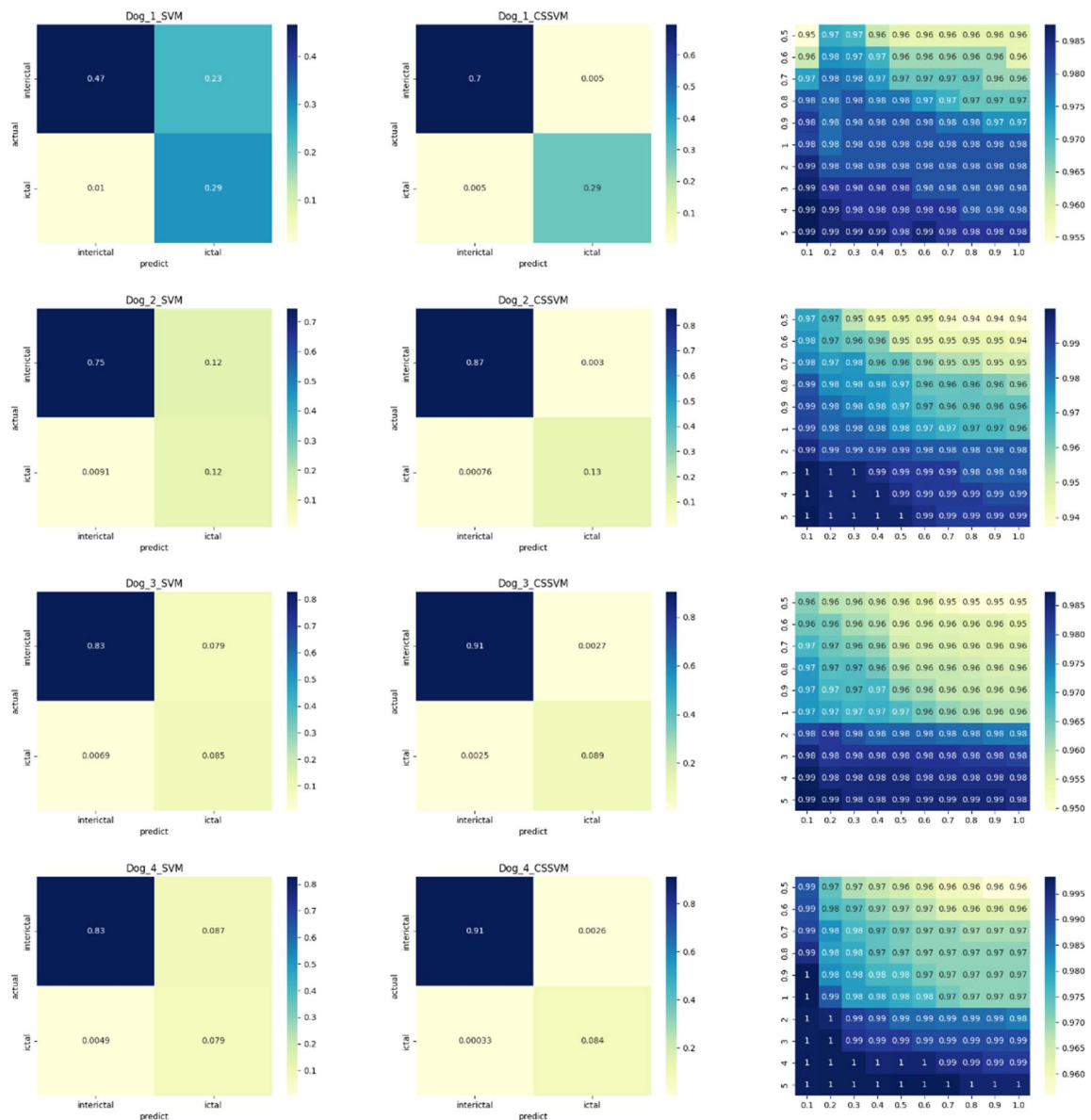
Appendices

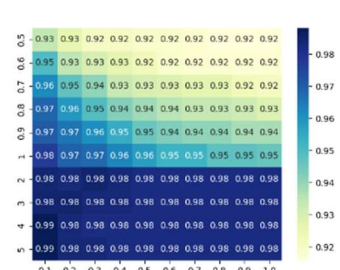
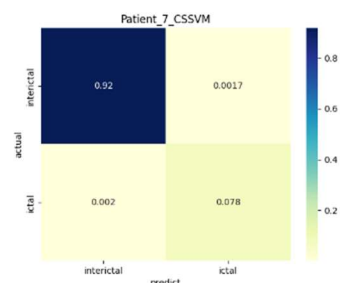
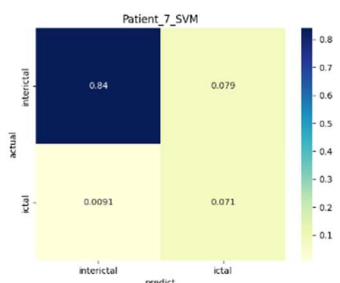
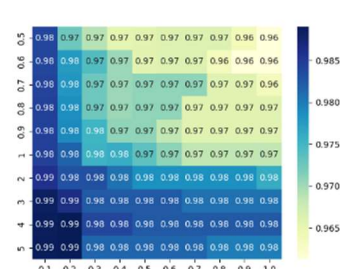
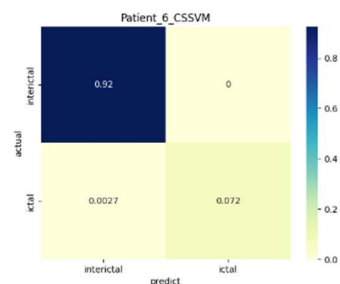
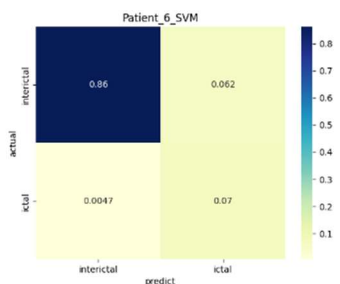
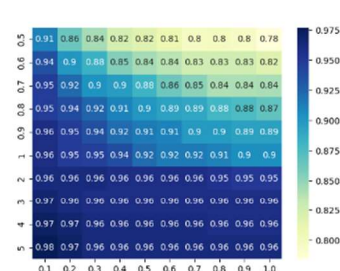
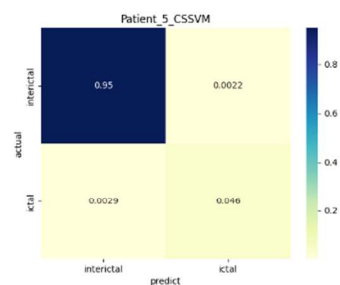
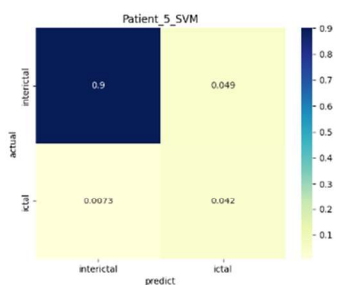
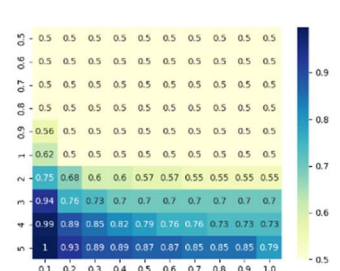
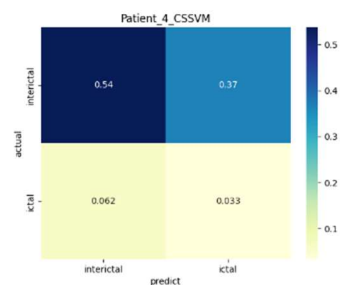
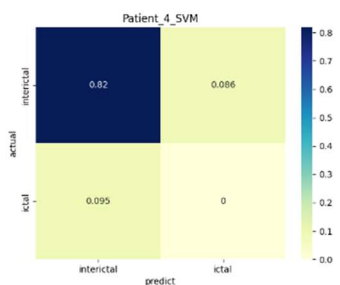
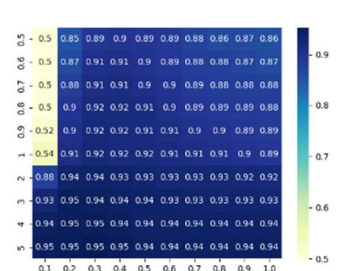
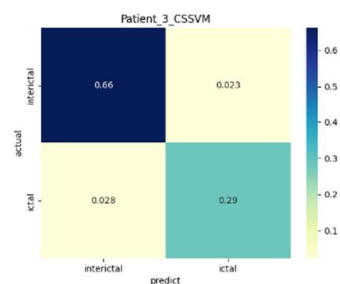
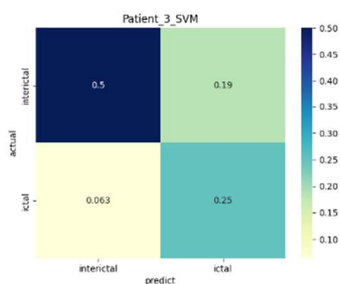
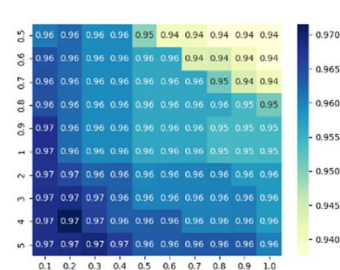
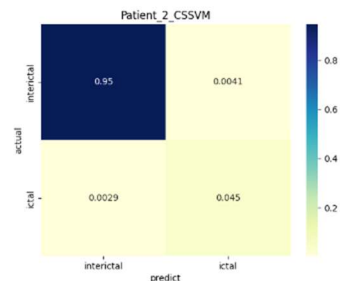
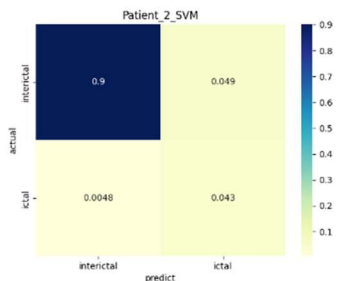
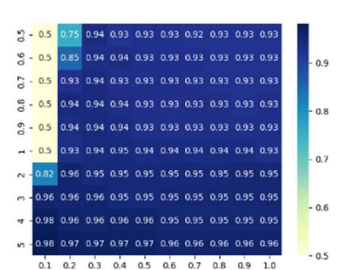
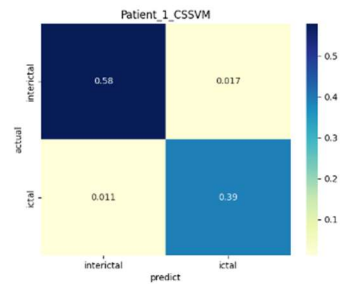
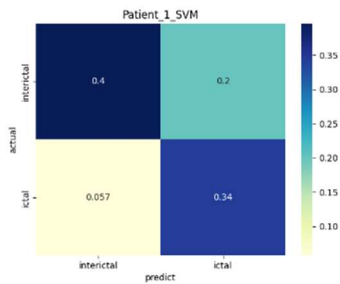
Appendix A – Detailed results for SVM and CS-SVM.

A.1 Results for the Detection task

	SVM			CS-CVM				
	Accuracy	Sensitivity	F1	Accuracy	Sensitivity	F1	parameter r	% of ictal
Dog_1	0.7550	0.9663	0.7020	0.9899	0.9831	0.9831	0.10	0.30
Dog_2	0.8667	0.9302	0.6452	0.9962	0.9942	0.9856	0.10	0.13
Dog_3	0.9145	0.9250	0.6647	0.9948	0.9729	0.9719	0.10	0.09
Dog_4	0.9084	0.9416	0.6343	0.9970	0.9961	0.9827	0.10	0.08
Patient_1	0.7414	0.8571	0.7273	0.9713	0.9714	0.9645	0.10	0.40
Patient_2	0.9465	0.9007	0.6182	0.9930	0.9404	0.9281	0.20	0.05
Patient_3	0.7512	0.7982	0.6684	0.9491	0.9113	0.9183	0.30	0.31
Patient_4	0.8190	0.0000	0.0000	0.5714	0.3500	0.1346	0.10	0.10
Patient_5	0.9435	0.8519	0.5974	0.9949	0.9407	0.9478	0.10	0.05
Patient_6	0.9333	0.9378	0.6785	0.9973	0.9644	0.9819	0.20	0.08
Patient_7	0.9117	0.8865	0.6165	0.9963	0.9752	0.9768	0.10	0.08
Patient_8	0.8222	0.0556	0.0562	0.9810	0.8278	0.8922	0.10	0.10

Figure 1. Statistical analysis for Detection





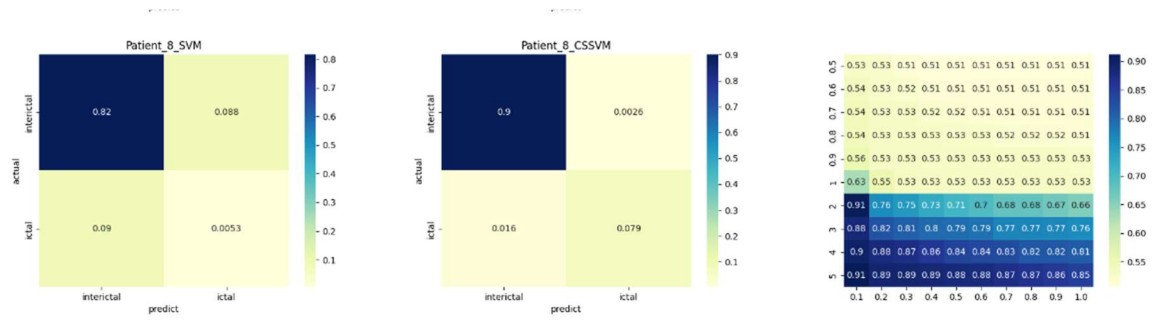
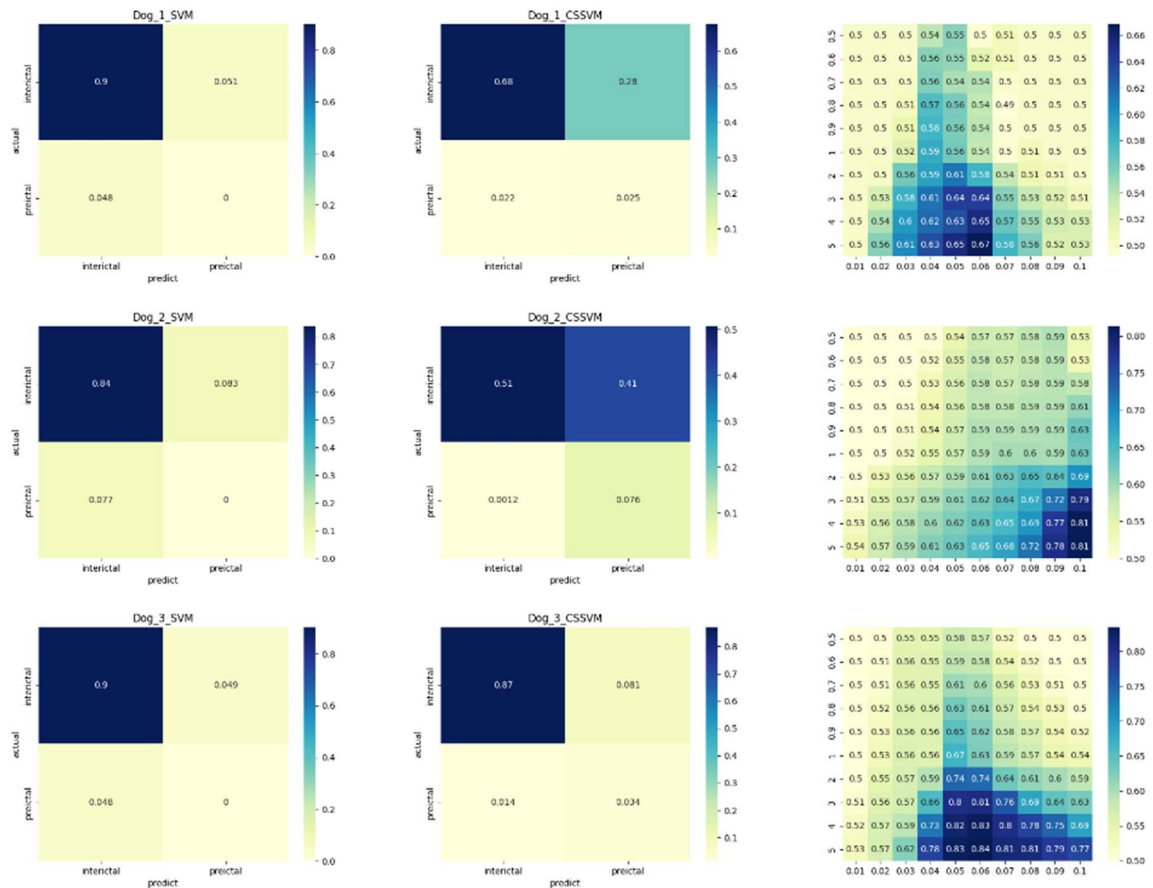


Figure 2. Confusion Matrices & CR Graph for the optimal parameters

A.2 Results for the Prediction task

	SVM			CS-CVM				
	Accuracy	Sensitivity	F1	Accuracy	Sensitivity	F1	parameter r	% of preictal
Dog_1	0.9015	0.0000	0.0000	0.7004	0.5278	0.1437	0.06	0.05
Dog_2	0.8395	0.0000	0.0000	0.5843	0.9841	0.2684	0.10	0.08
Dog_3	0.9039	0.0000	0.0000	0.9054	0.7083	0.4163	0.06	0.05
Dog_4	0.7984	0.0000	0.0000	0.6744	0.9210	0.3785	0.10	0.11
Dog_5	0.9007	0.0000	0.0000	0.8660	0.8444	0.4406	0.09	0.06
Patient_1	0.6961	0.3148	0.3542	0.7255	0.5185	0.5000	0.40	0.26
Patient_2	0.4778	0.0000	0.0000	0.5944	0.9259	0.5780	0.30	0.30

Figure 3. Statistical analysis for Prediction



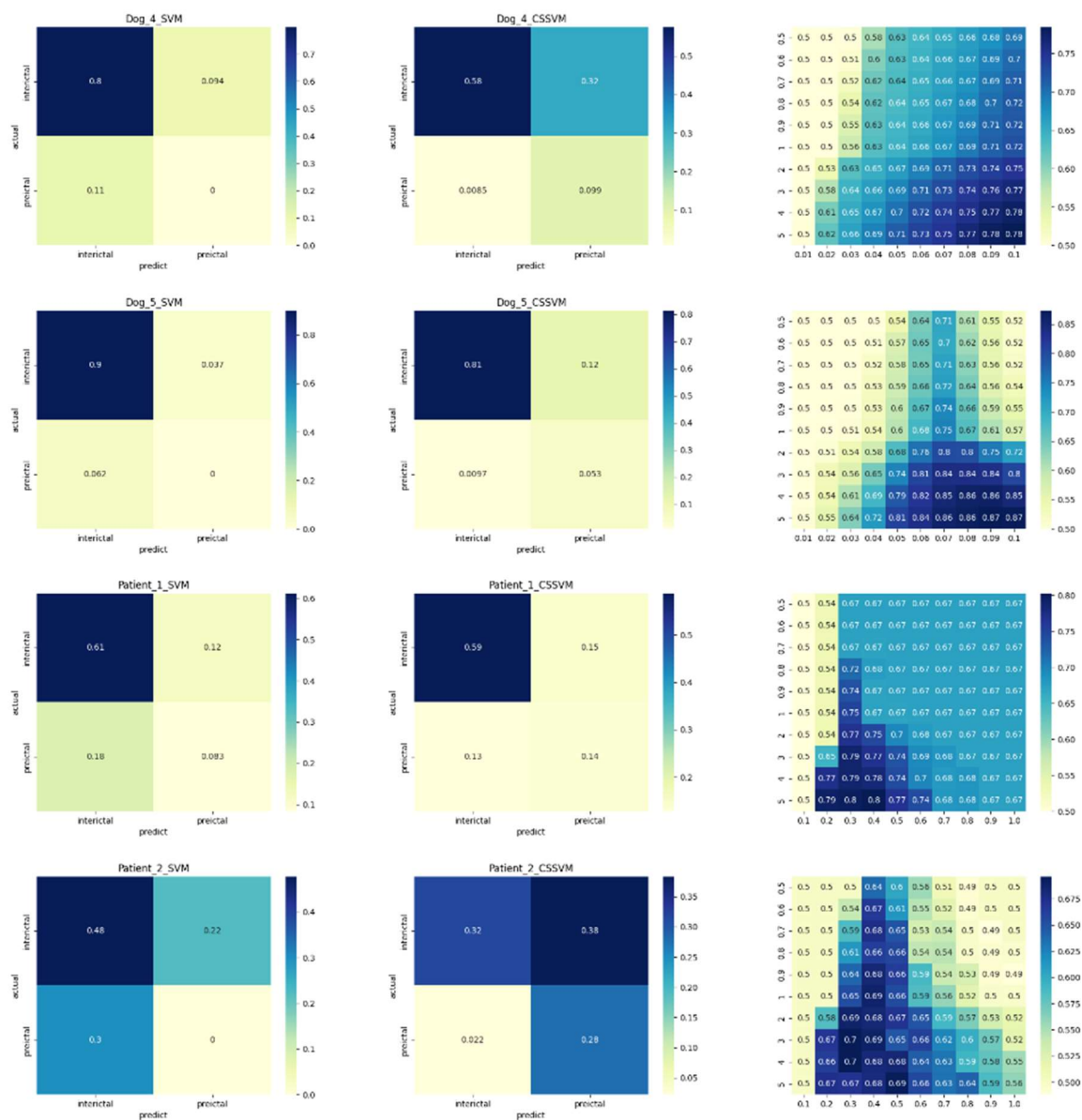


Figure 4. Confusion Matrices & CR Graph for the optimal parameters

Appendix B – Confusion Matrices for LR and ANN.

T/P	Ictal	Interictal
Ictal	71.0	75.0
Interictal	12.0	318

Figure 5. LR for Dog_1

T/P	Ictal	Interictal
Ictal	146	0
Interictal	1	329

Figure 6. ANN for Dog_1

T/P	Ictal	Interictal
Ictal	7	117
Interictal	0	1199

Figure 7. LR for Patient_8

T/P	Ictal	Interictal
Ictal	124	0
Interictal	10	1189

Figure 8. ANN for Patient_8