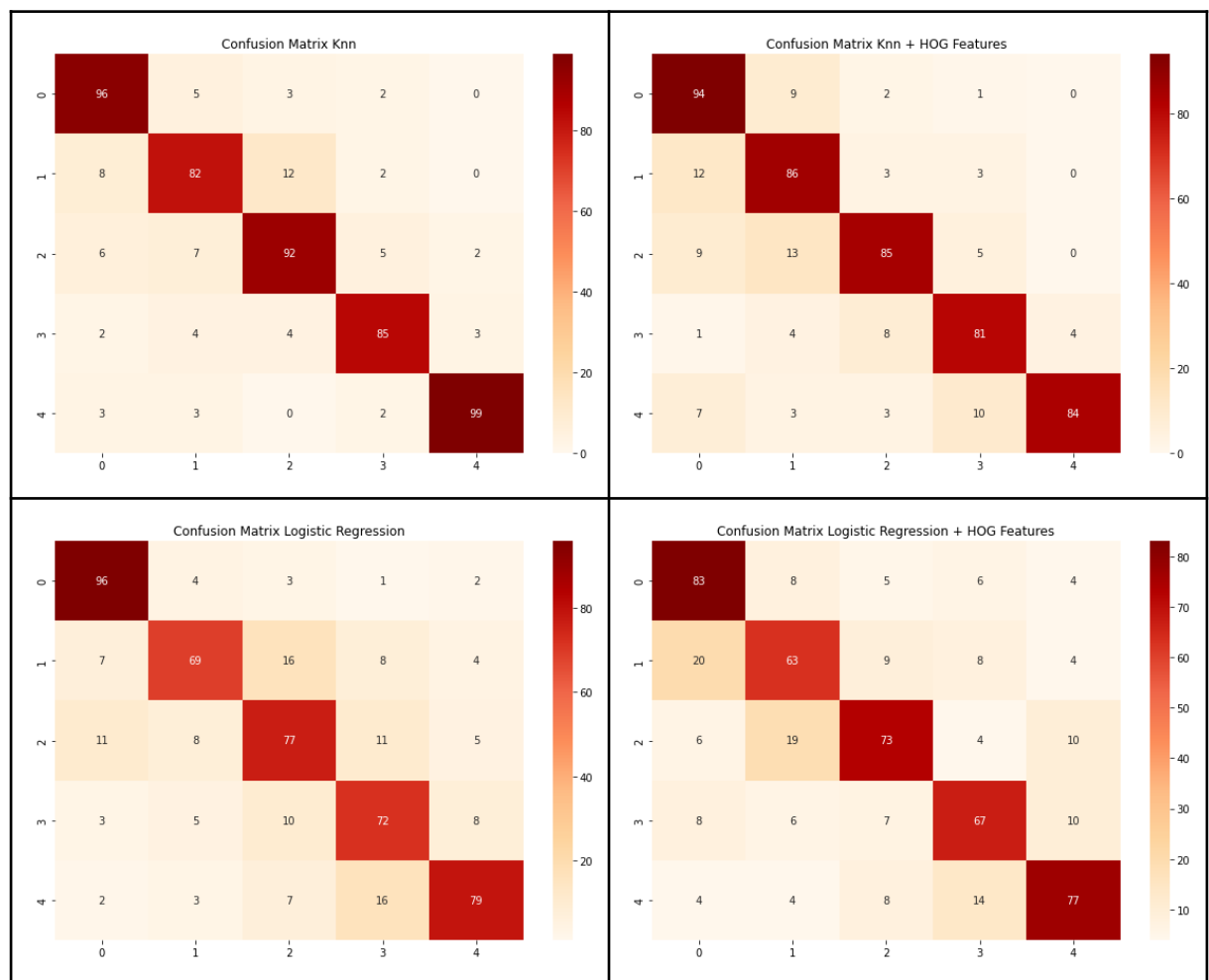
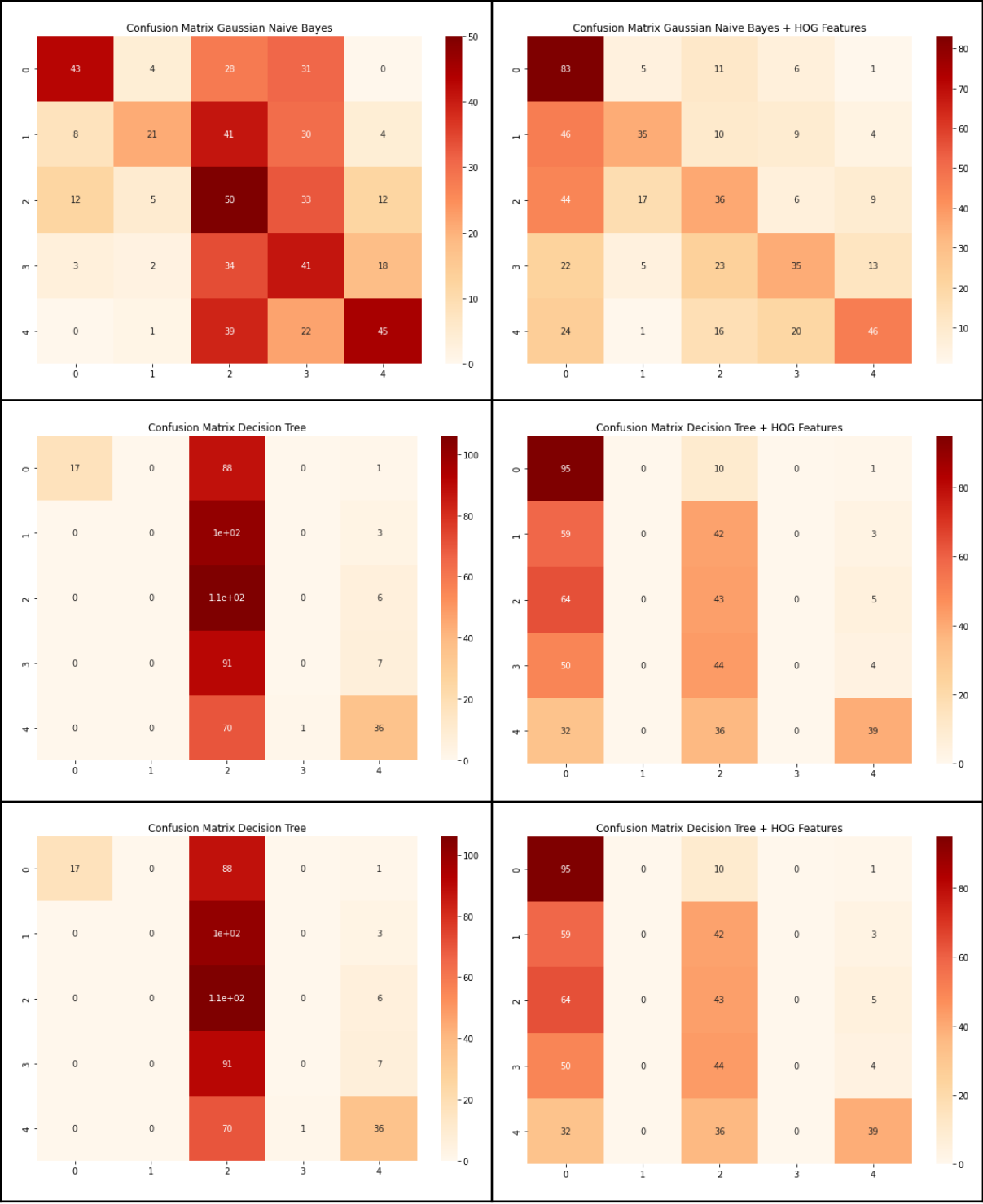


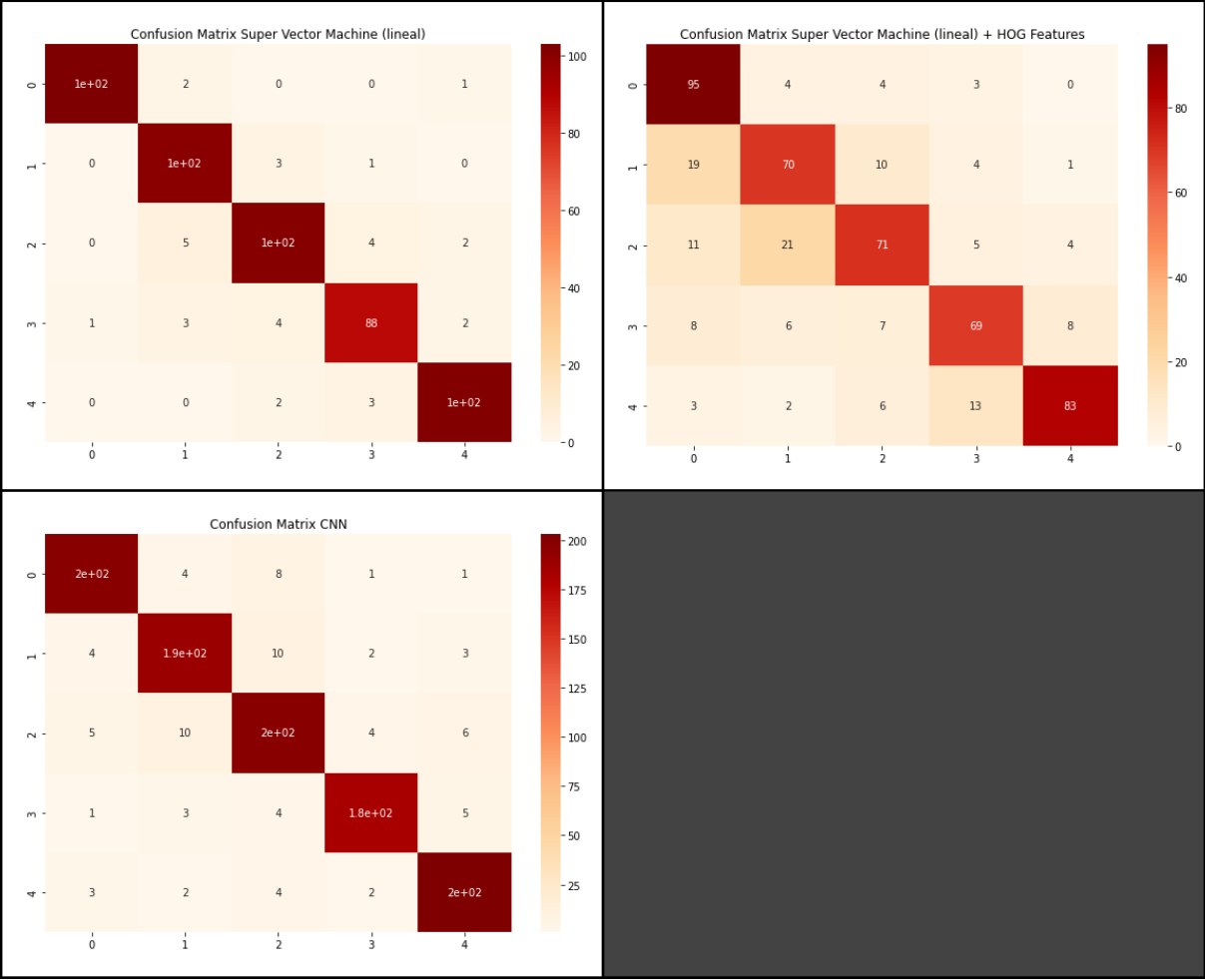
Imatges Originals

¼ Dataset

¼ 80/20	Precision		Recall		F1-Score		Temps	
	Sense	HOG	Sense	HOG	Sense	HOG	Sense	HOG
KNN	0.86	0.82	0.86	0.82	0.86	0.82	0.82	0.22
LR	0.75	0.69	0.75	0.69	0.75	0.69	8.01	0.25
NB	0.48	0.48	0.38	0.45	0.39	0.44	0.76	0.03
DT	0.38	0.26	0.29	0.33	0.22	0.25	3.62	0.17
RF	0.66	0.52	0.40	0.44	0.37	0.38	2.44	0.96
SVM	0.94	0.74	0.94	0.74	0.94	0.74	23.08	0.72
CNN	0.92		0.92		0.92		1.985.31	

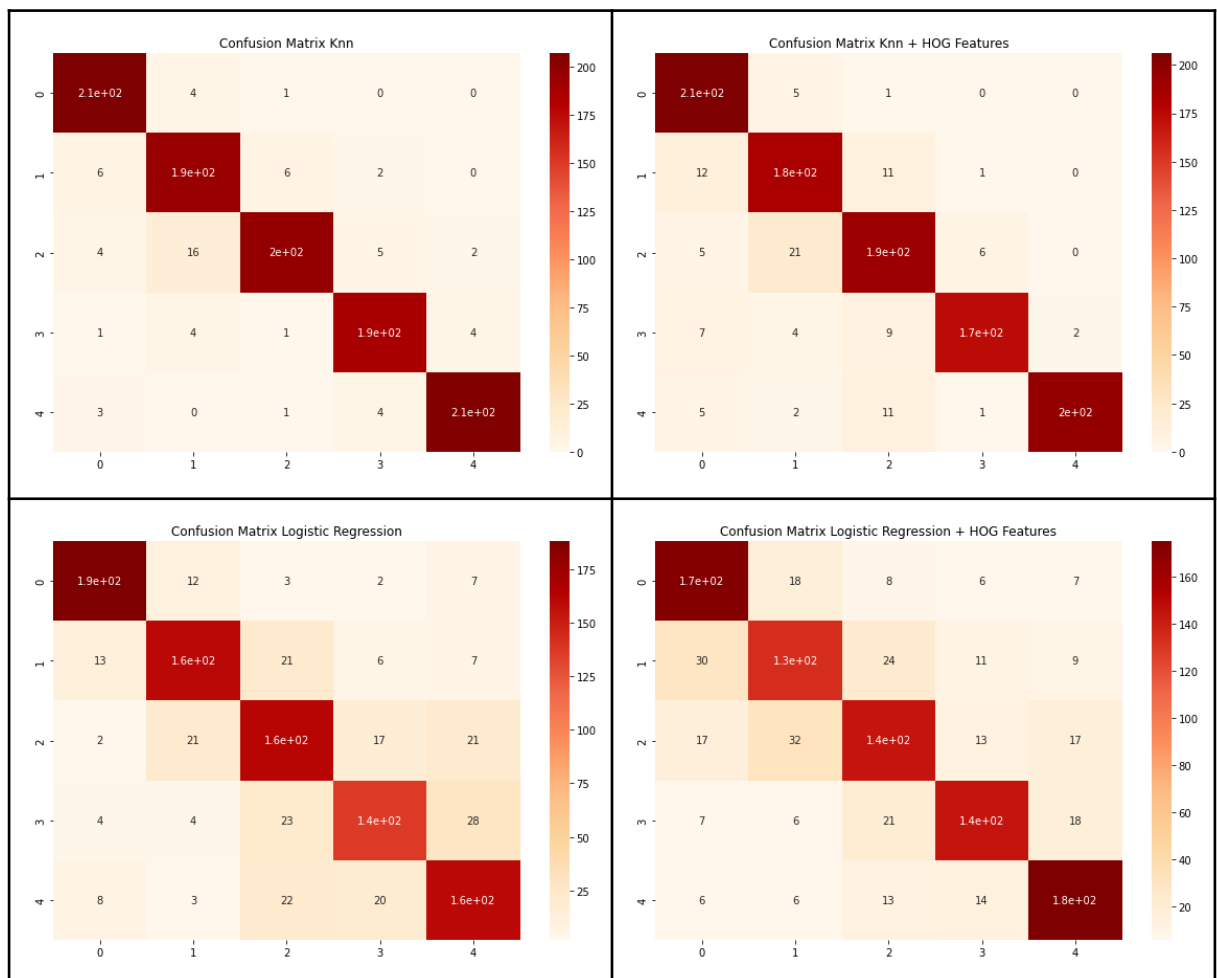


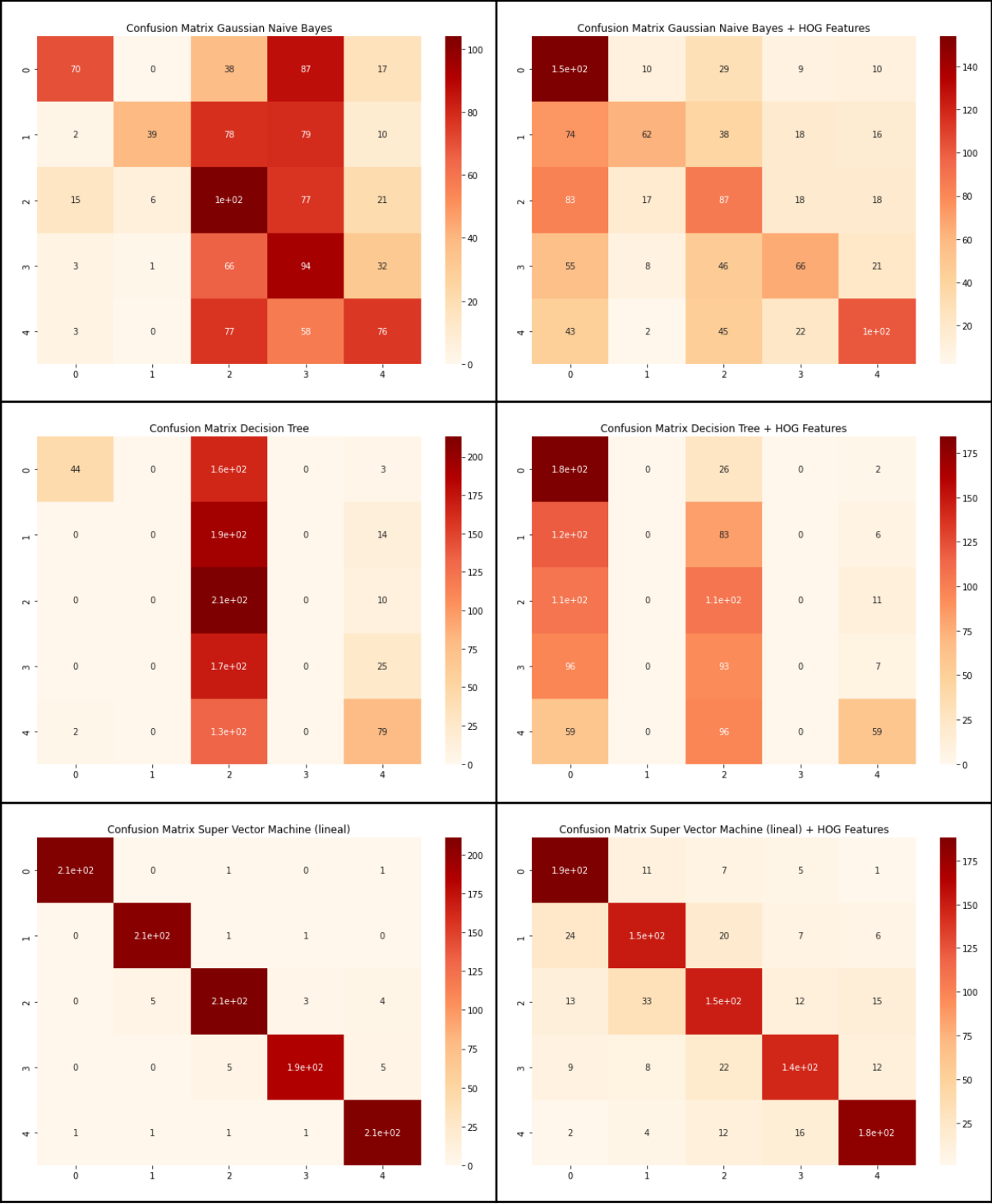


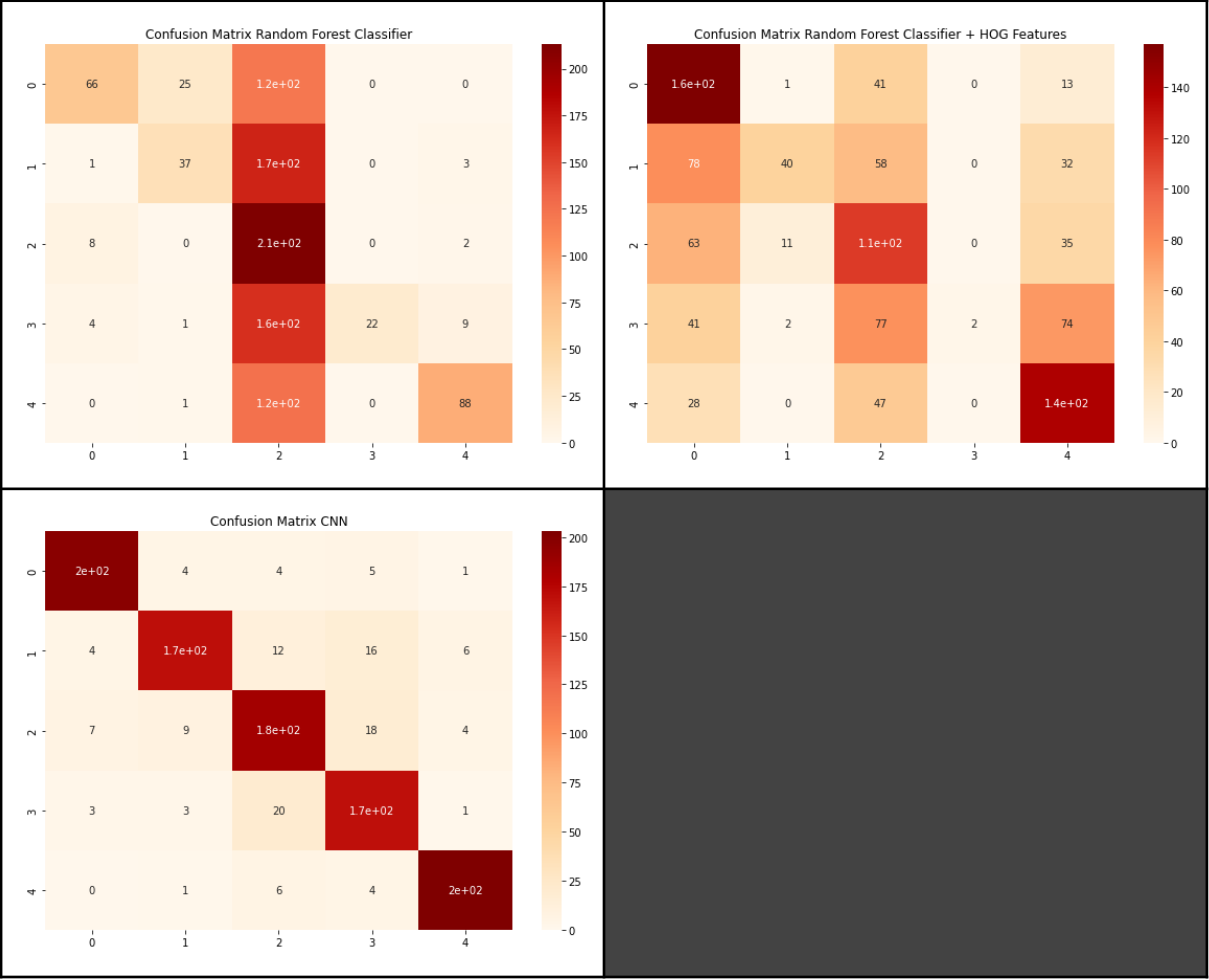


½ Dataset

½ 80/20	Precision		Recall		F1-Score		Temps	
	Sense	HOG	Sense	HOG	Sense	HOG	Sense	HOG
KNN	0.94	0.91	0.94	0.90	0.94	0.90	1.46	0.22
LR	0.77	0.73	0.77	0.73	0.77	0.73	10.23	0.39
NB	0.52	0.49	0.36	0.45	0.37	0.44	1.24	0.05
DT	0.36	0.26	0.31	0.32	0.24	0.24	6.93	0.35
RF	0.70	0.59	0.39	0.42	0.38	0.36	4.11	1.70
SVM	0.97	0.77	0.97	0.77	0.97	0.77	81.74	4.05
CNN	0.88		0.88		0.88		2366.09	



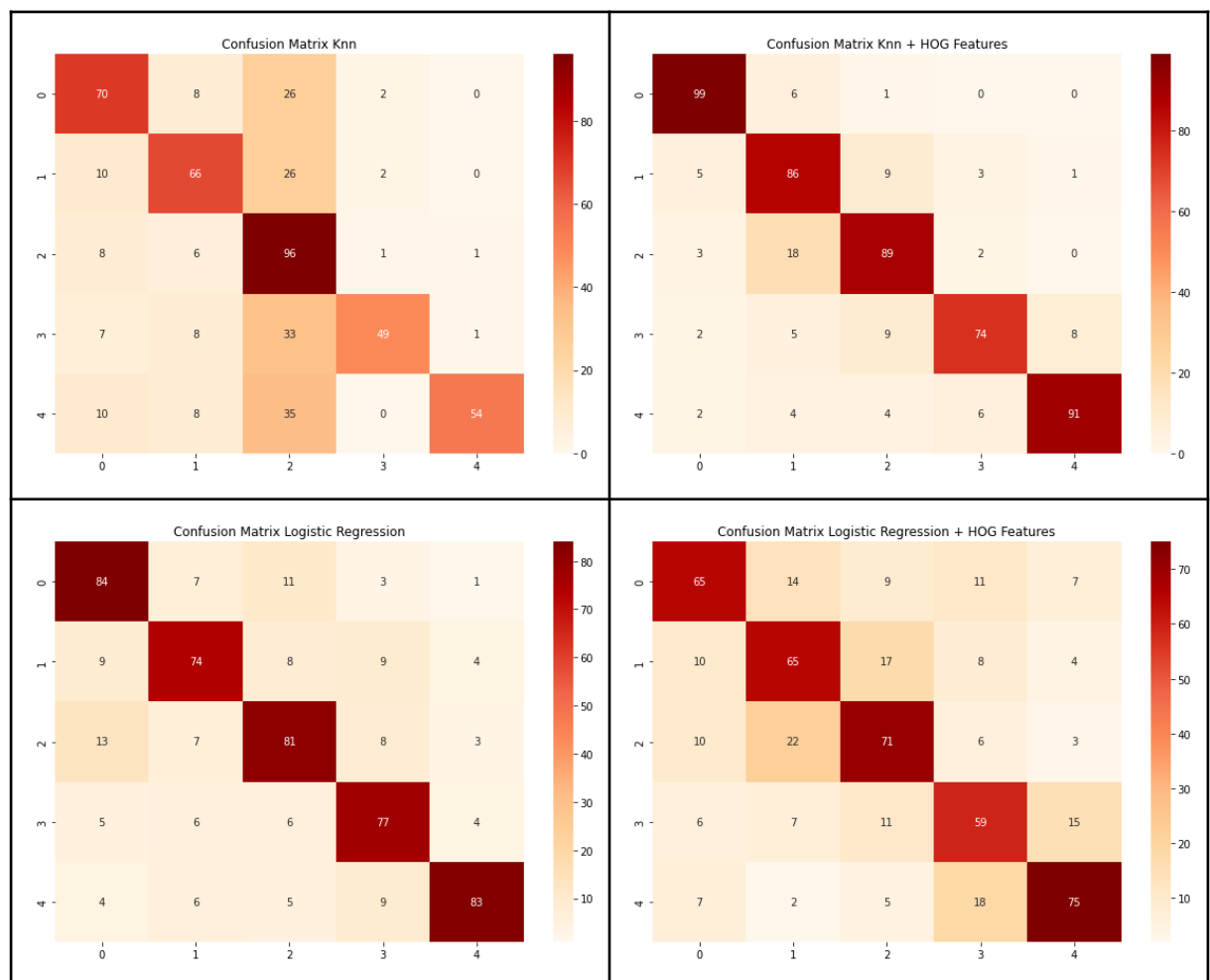


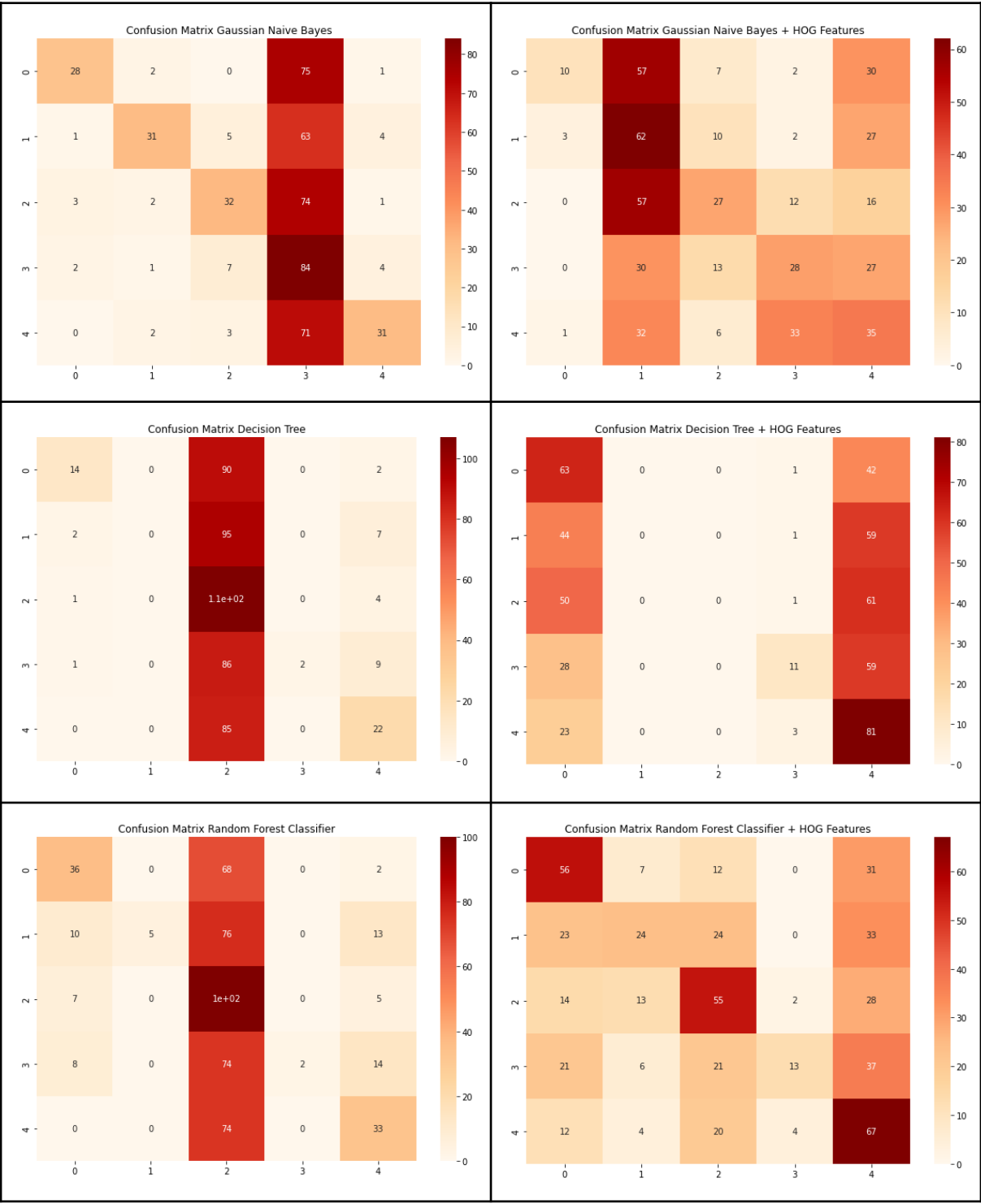


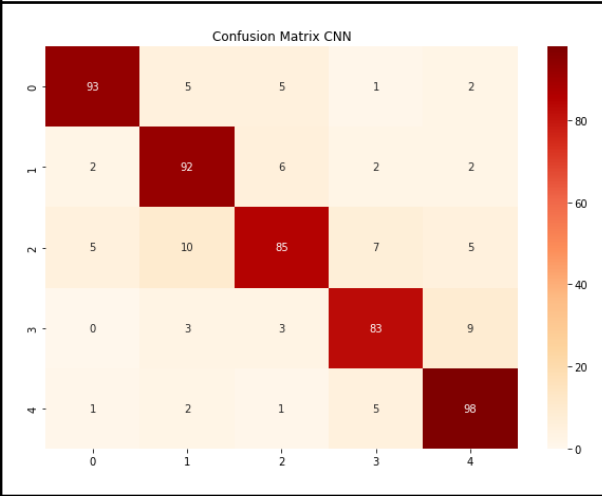
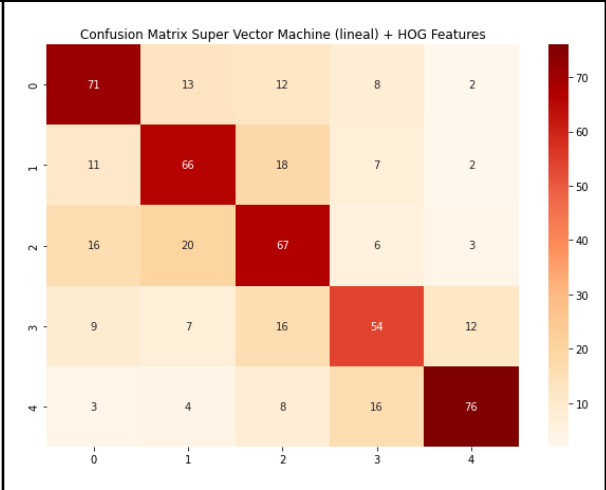
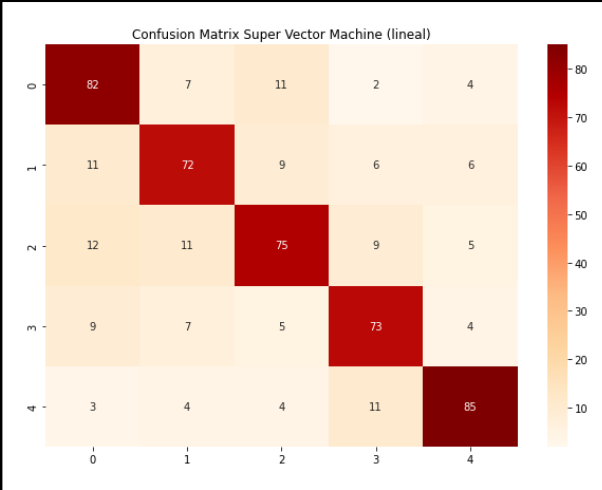
Imatges Sobel

¼ Dataset

¼ 80/20	Precision		Recall		F1-Score		Temps	
	Sense	HOG	Sense	HOG	Sense	HOG	Sense	HOG
KNN	0.73	0.84	0.63	0.83	0.64	0.83	0.76	0.34
LR	0.76	0.64	0.76	0.64	0.76	0.64	7.86	0.51
NB	0.66	0.41	0.39	0.31	0.40	0.29	0.81	0.12
DT	0.49	0.24	0.26	0.29	0.19	0.20	3.46	0.20
RF	0.66	0.46	0.32	0.40	0.27	0.38	1.82	0.66
SVM	0.73	0.64	0.73	0.63	0.73	0.63	56.94	1.29
CNN	0.86		0.86		0.86		976.19	

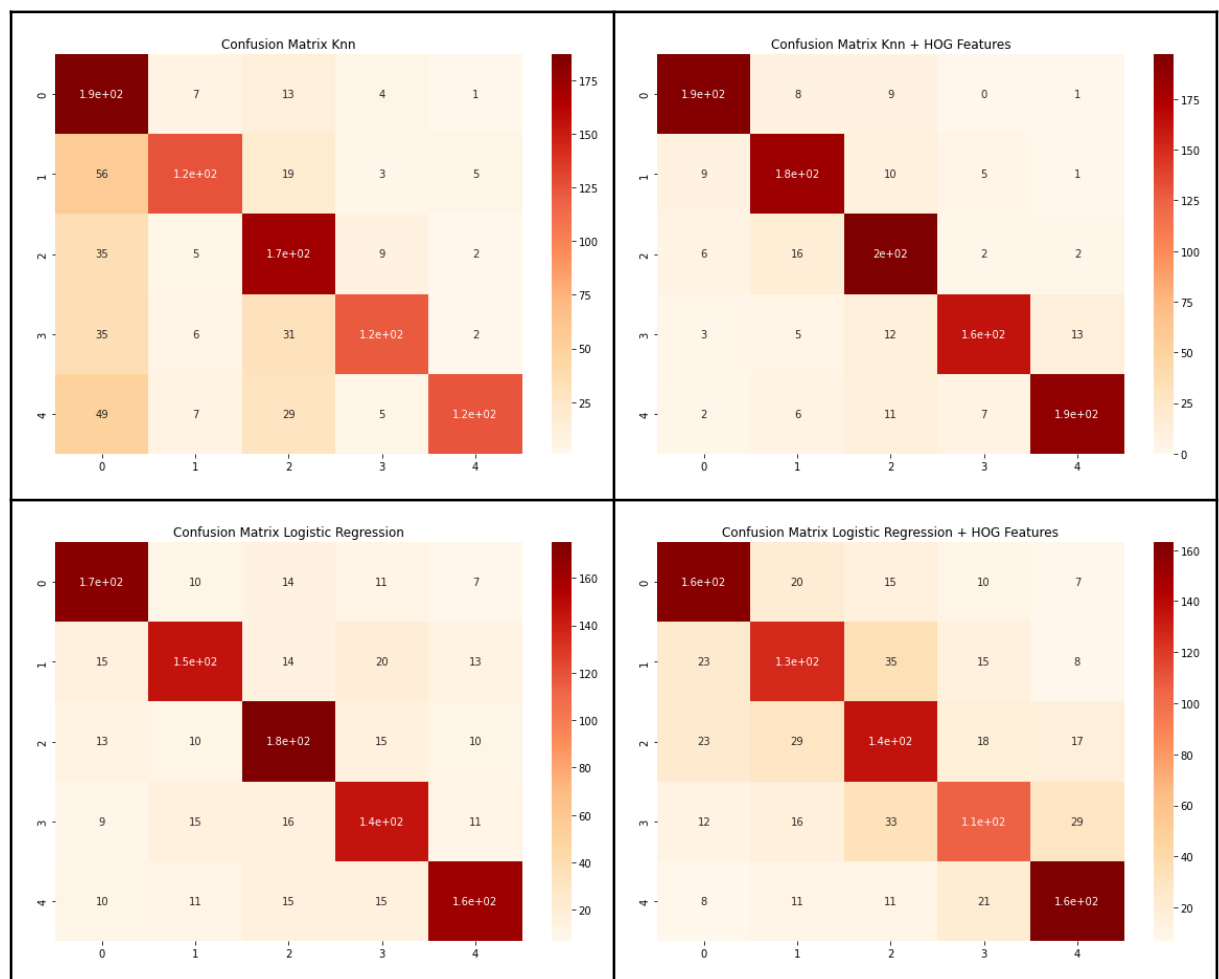


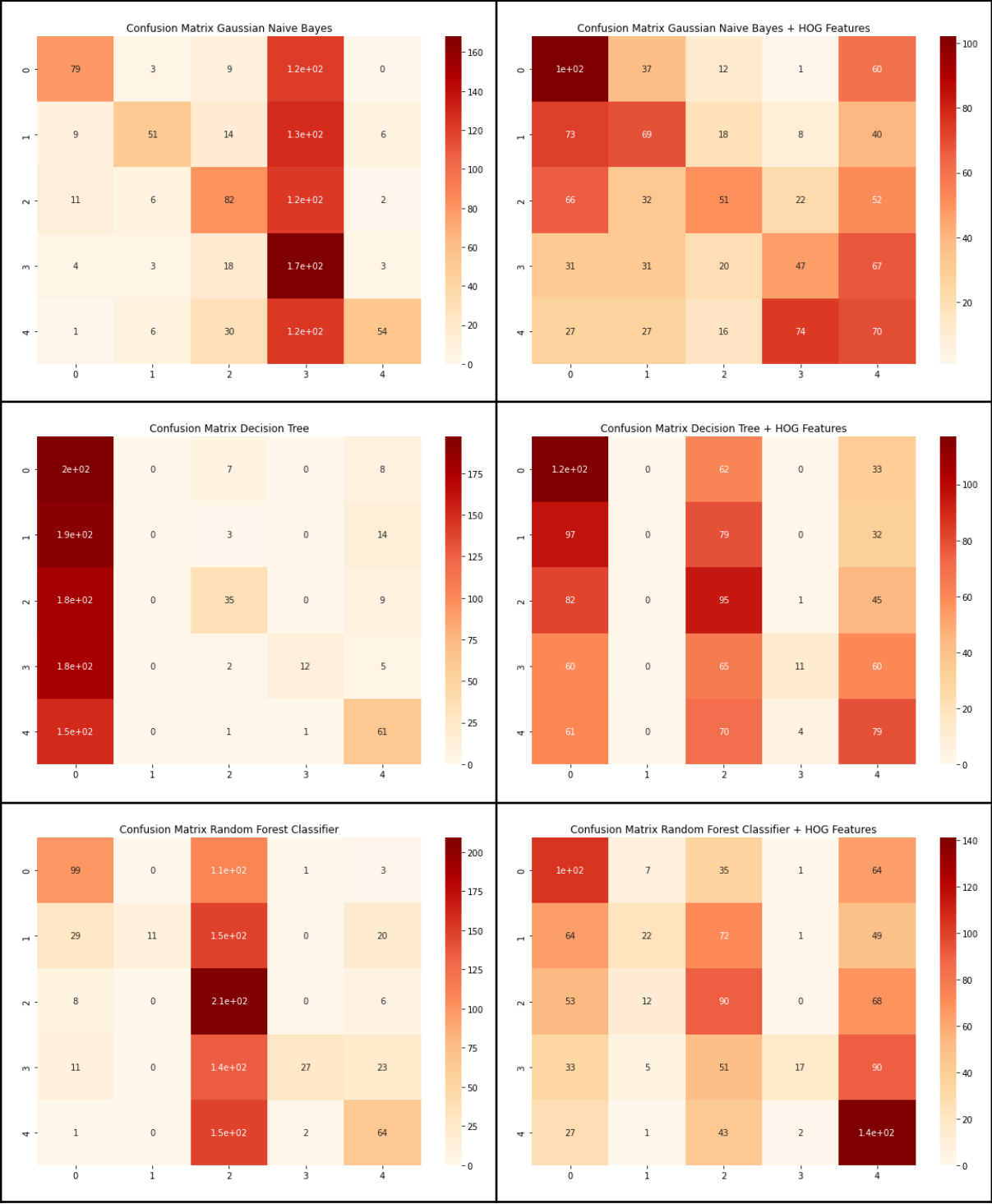


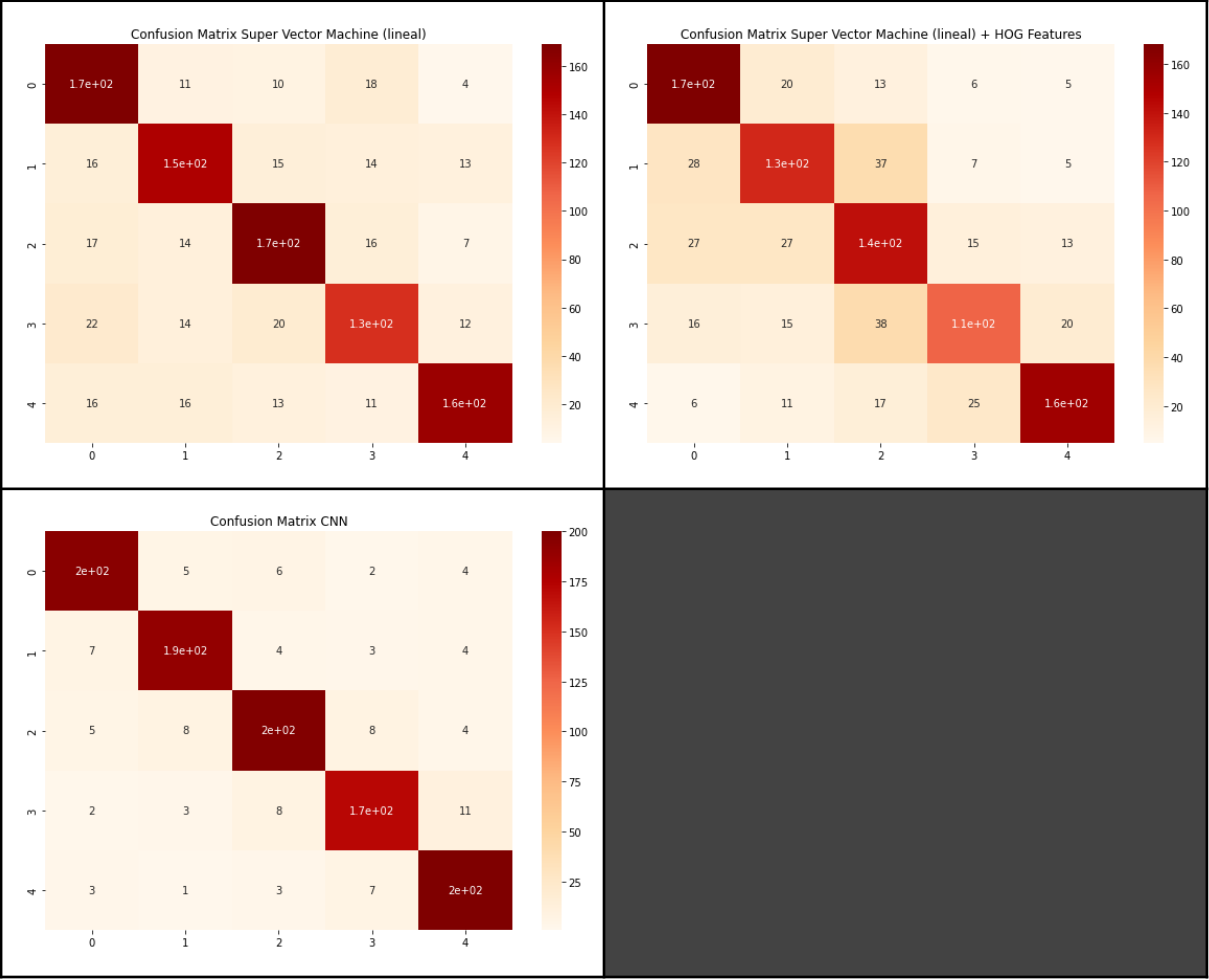


½ Dataset

½ 80/20	Precision		Recall		F1-Score		Temps	
	Sense	HOG	Sense	HOG	Sense	HOG	Sense	HOG
KNN	0.75	0.88	0.69	0.88	0.70	0.88	2.09	0.29
LR	0.76	0.66	0.76	0.66	0.76	0.65	13.44	0.83
NB	0.62	0.34	0.41	0.32	0.42	0.32	1.87	0.21
DT	0.50	0.30	0.29	0.28	0.22	0.23	6.83	0.34
RF	0.67	0.45	0.38	0.35	0.34	0.31	3.61	1.17
SVM	0.74	0.67	0.73	0.66	0.73	0.67	145.40	8.30
CNN	0.91		0.91		0.91		2008.67	



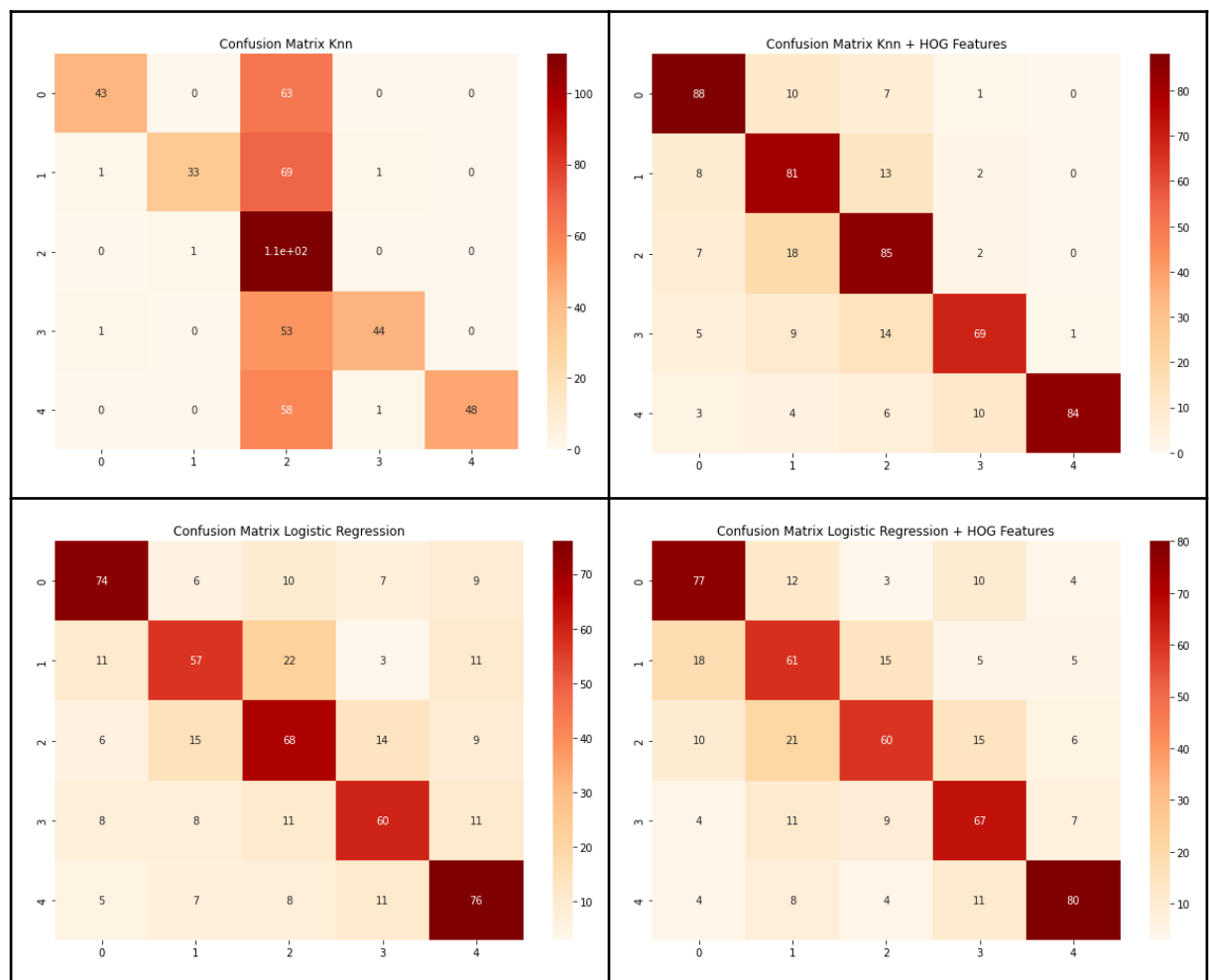


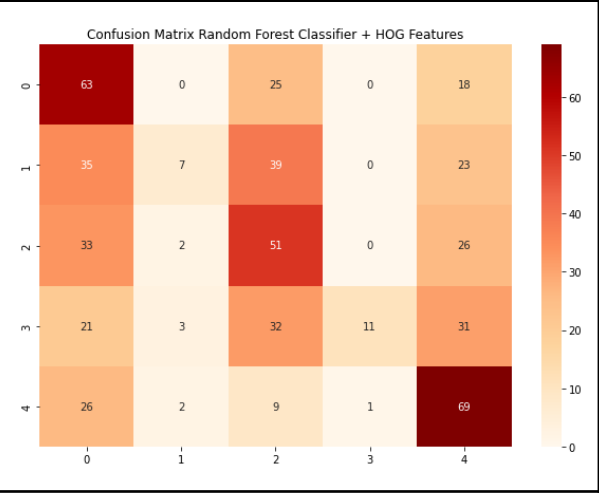
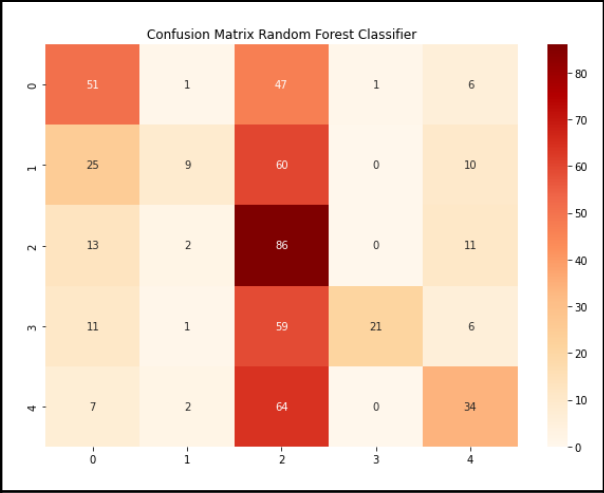
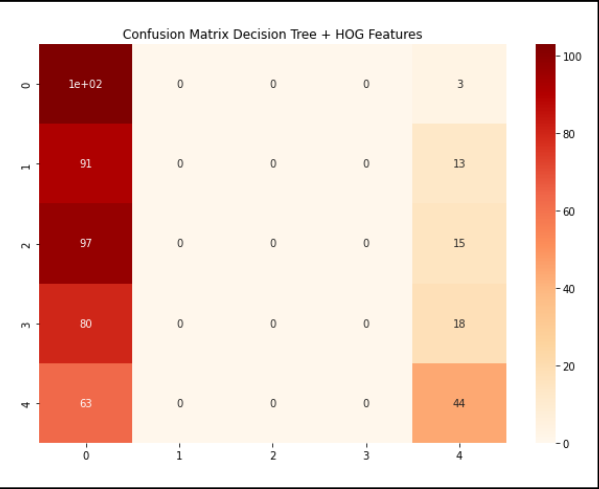
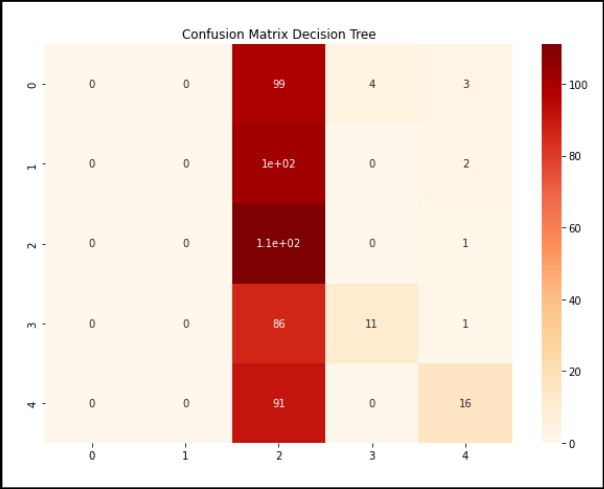
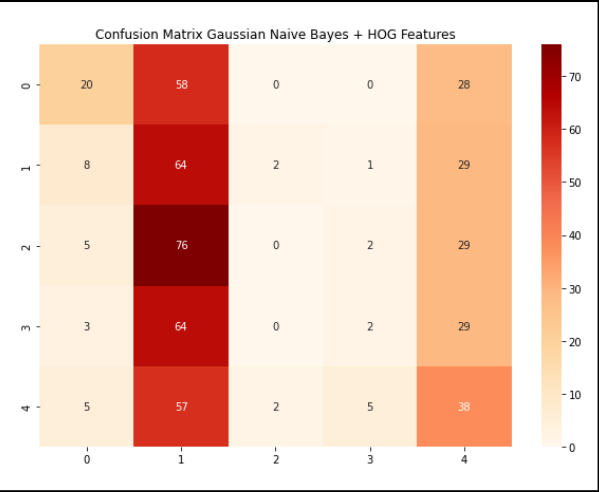
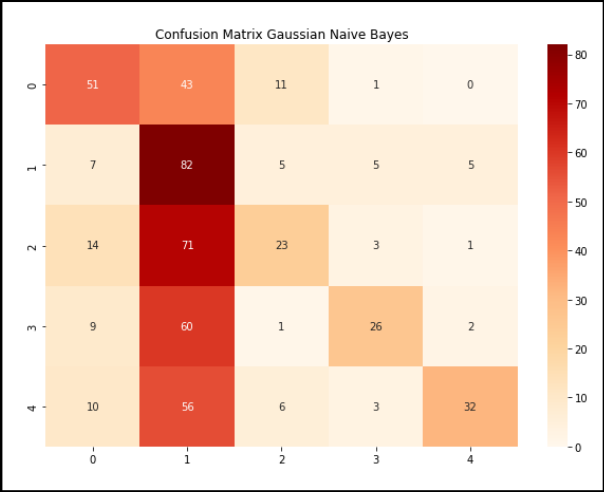


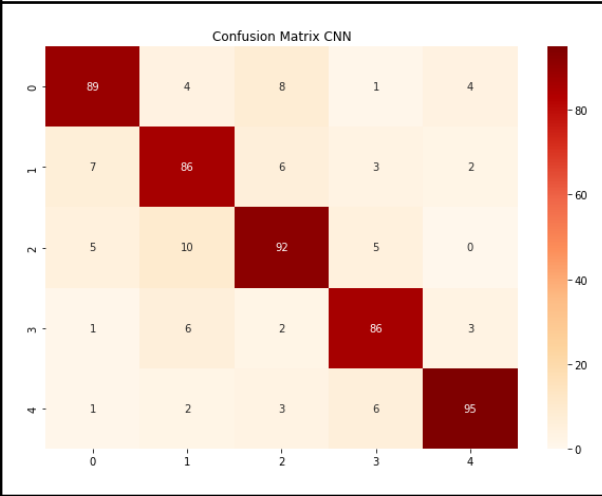
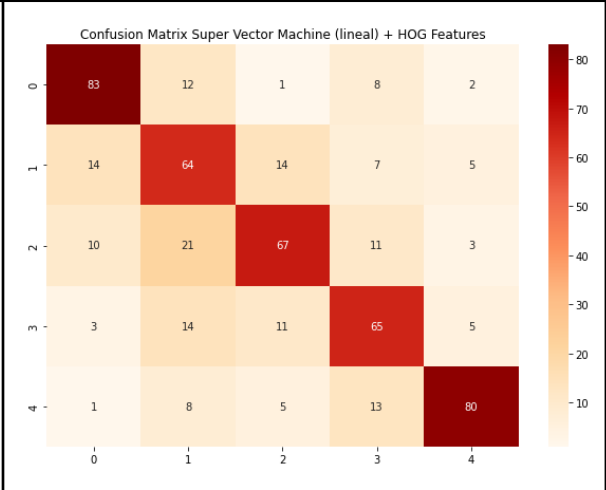
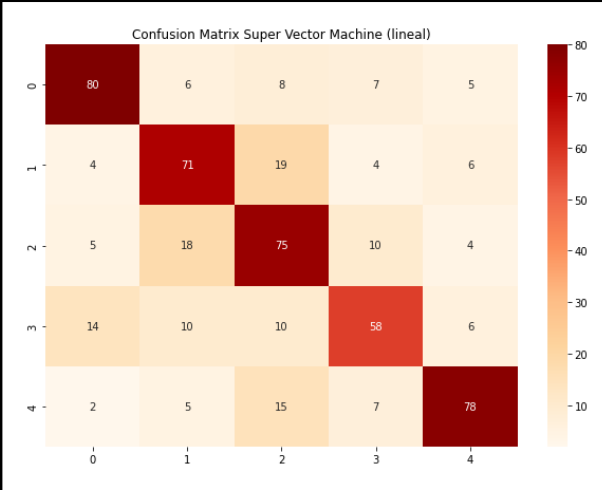
Imatges Canny

¼ Dataset

¼ 80/20	Precision		Recall		F1-Score		Temps	
	Sense	HOG	Sense	HOG	Sense	HOG	Sense	HOG
KNN	0.83	0.79	0.52	0.77	0.55	0.78	0.65	0.16
LR	0.64	0.66	0.64	0.65	0.64	0.65	9.19	0.49
NB	0.56	0.23	0.41	0.24	0.40	0.18	0.93	0.20
DT	0.33	0.14	0.25	0.28	0.16	0.16	2.73	0.21
RF	0.55	0.49	0.37	0.37	0.35	0.33	1.57	0.78
SVM	0.69	0.69	0.69	0.68	0.69	0.68	56.36	1.07
CNN	0.85		0.85		0.85		980.47	

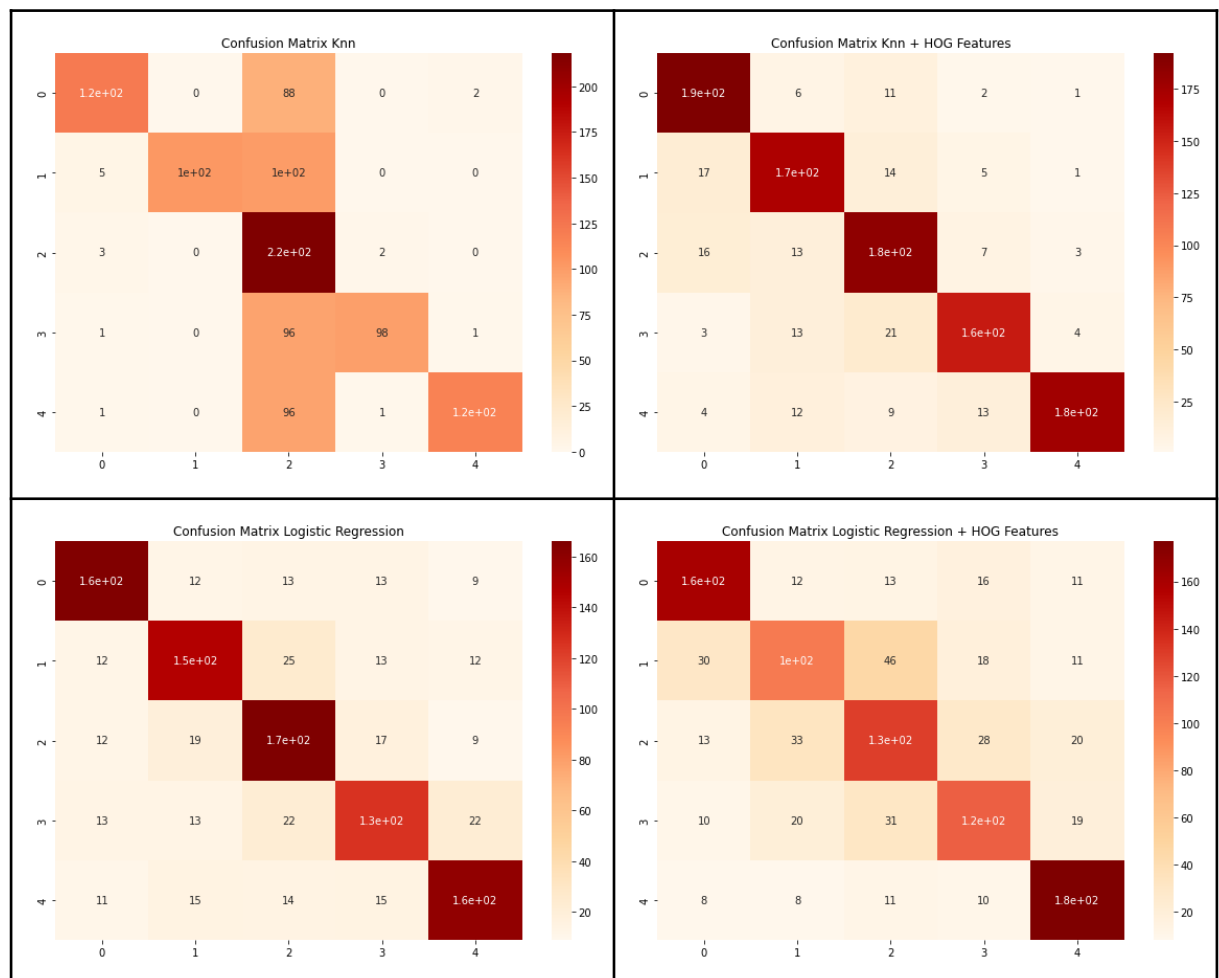


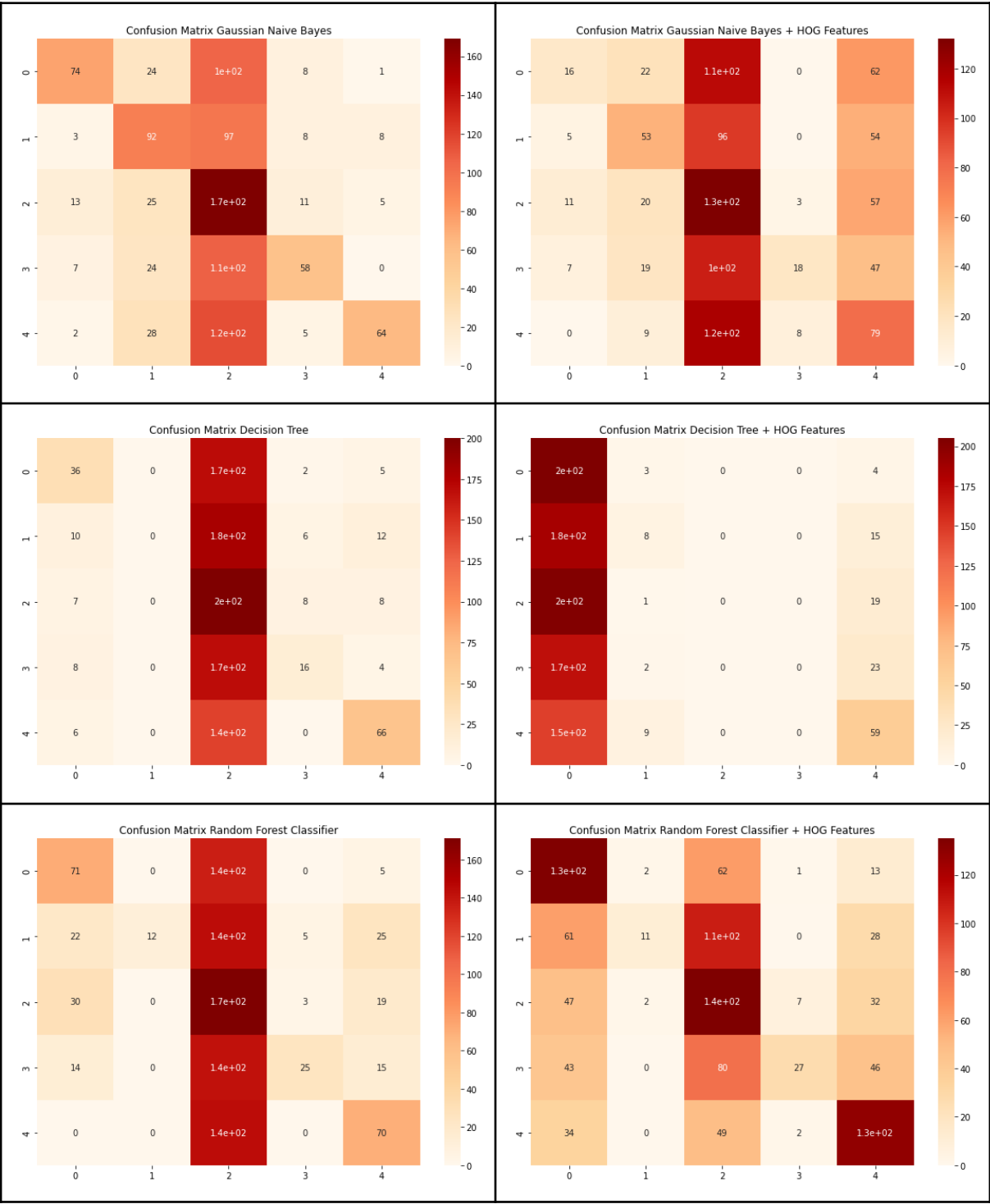


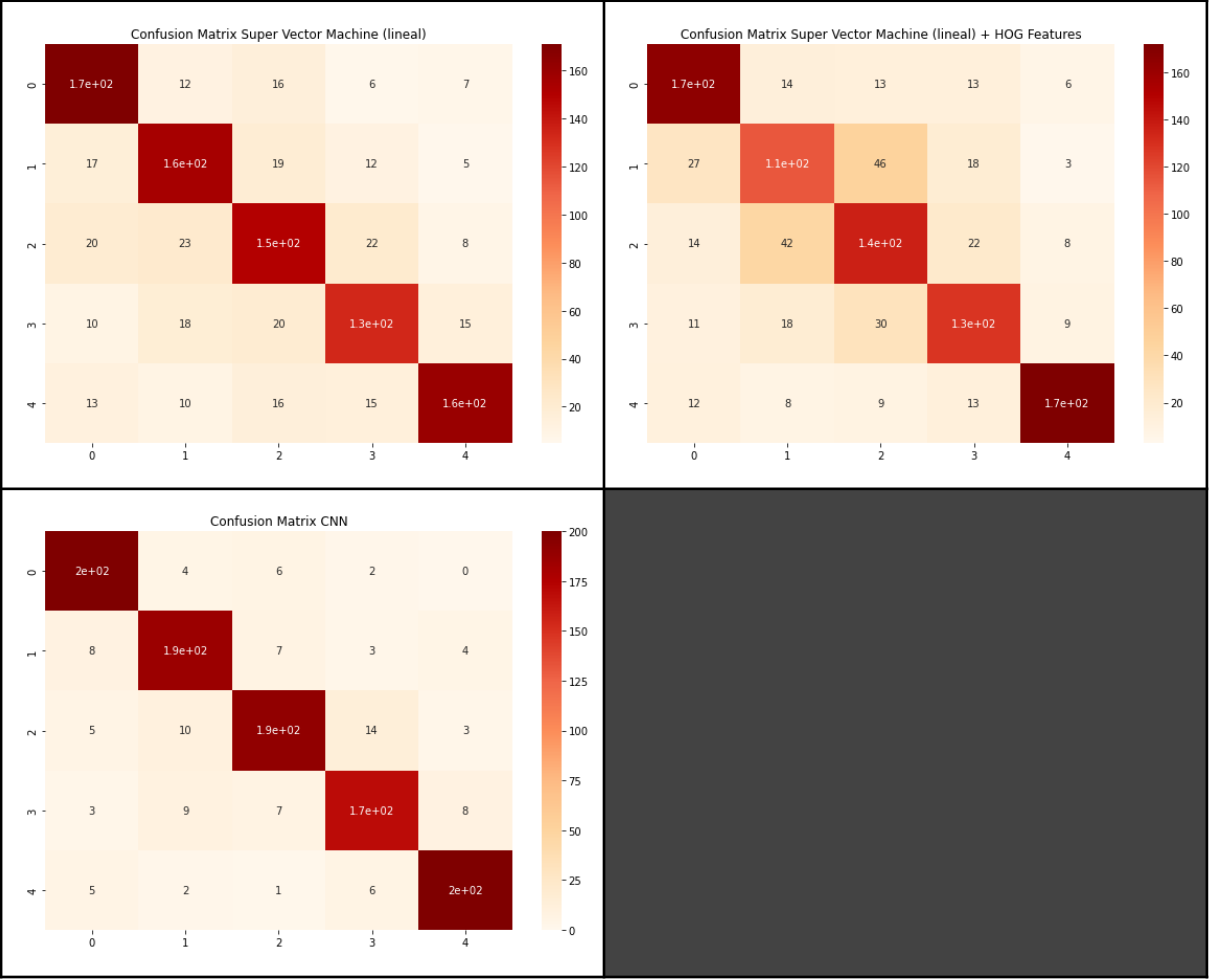


½ Dataset

½ 80/20	Precision		Recall		F1-Score		Temps	
	Sense	HOG	Sense	HOG	Sense	HOG	Sense	HOG
KNN	0.84	0.84	0.62	0.83	0.65	0.83	2.53	0.48
LR	0.72	0.65	0.72	0.65	0.72	0.65	18.15	1.02
NB	0.59	0.39	0.43	0.28	0.44	0.25	2.91	0.34
DT	0.39	0.21	0.29	0.26	0.24	0.16	8.16	0.61
RF	0.60	0.54	0.32	0.41	0.30	0.36	4.12	1.47
SVM	0.73	0.68	0.73	0.68	0.73	0.68	181.35	7.5
CNN	0.90		0.90		0.90		2291.13	



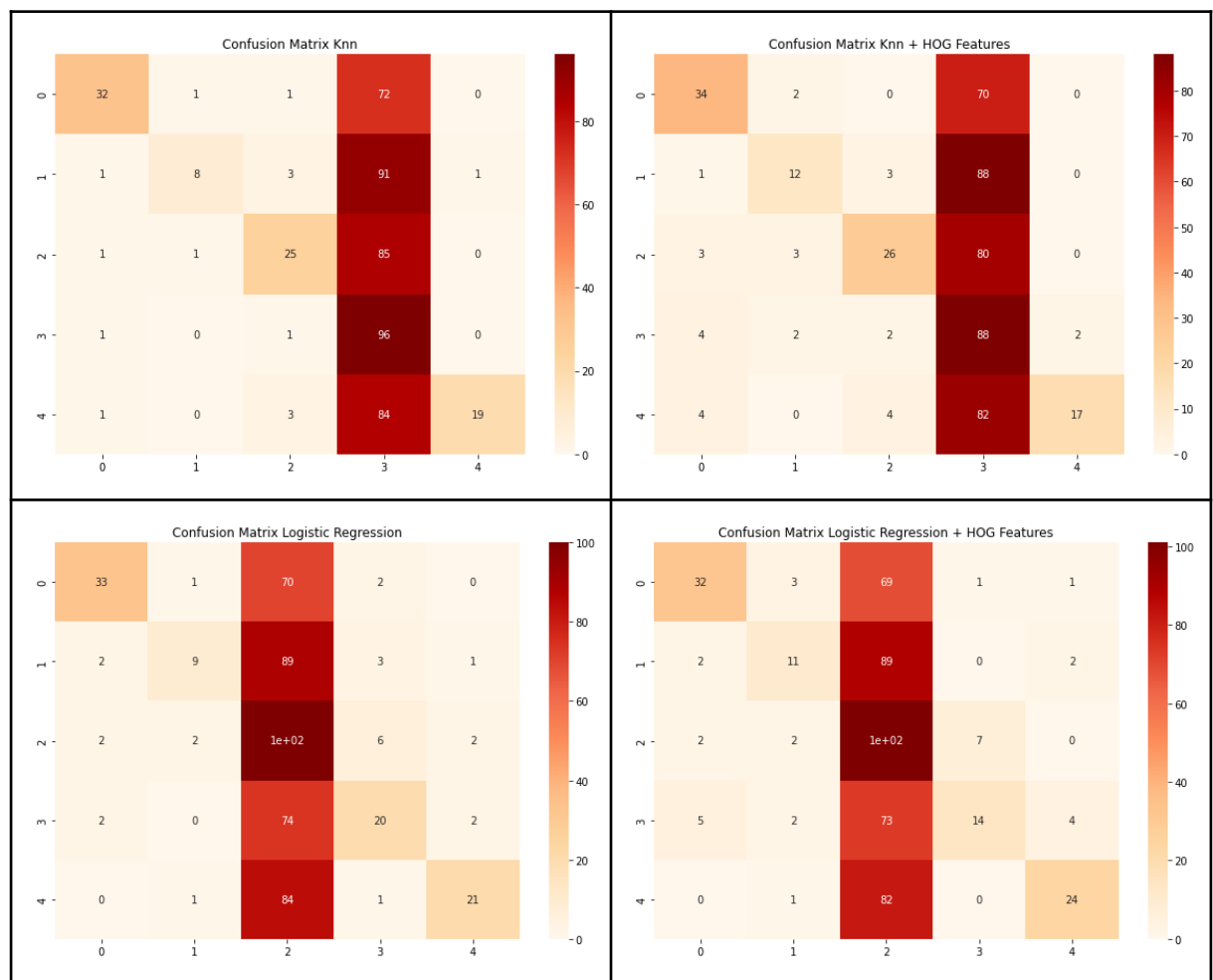


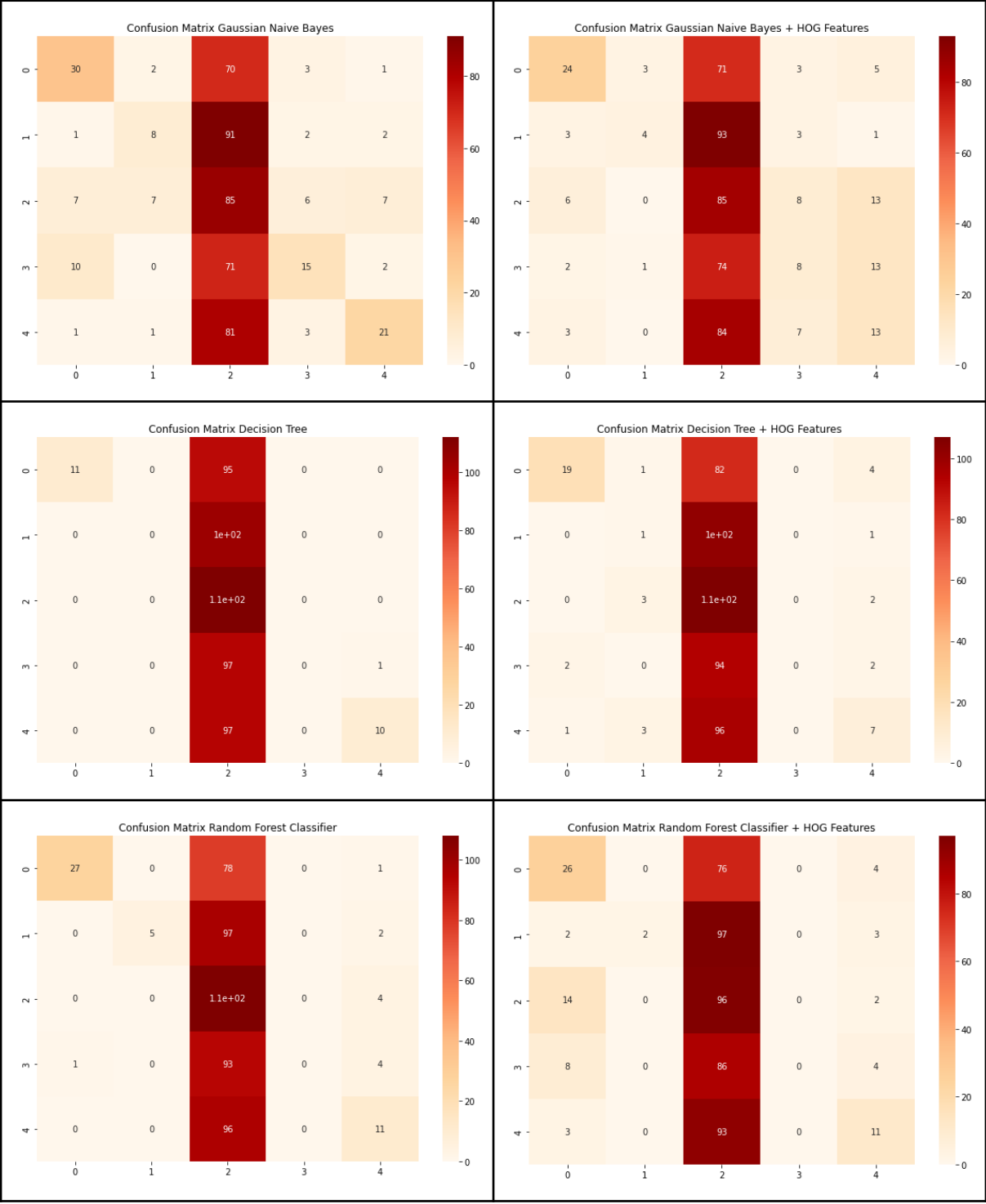


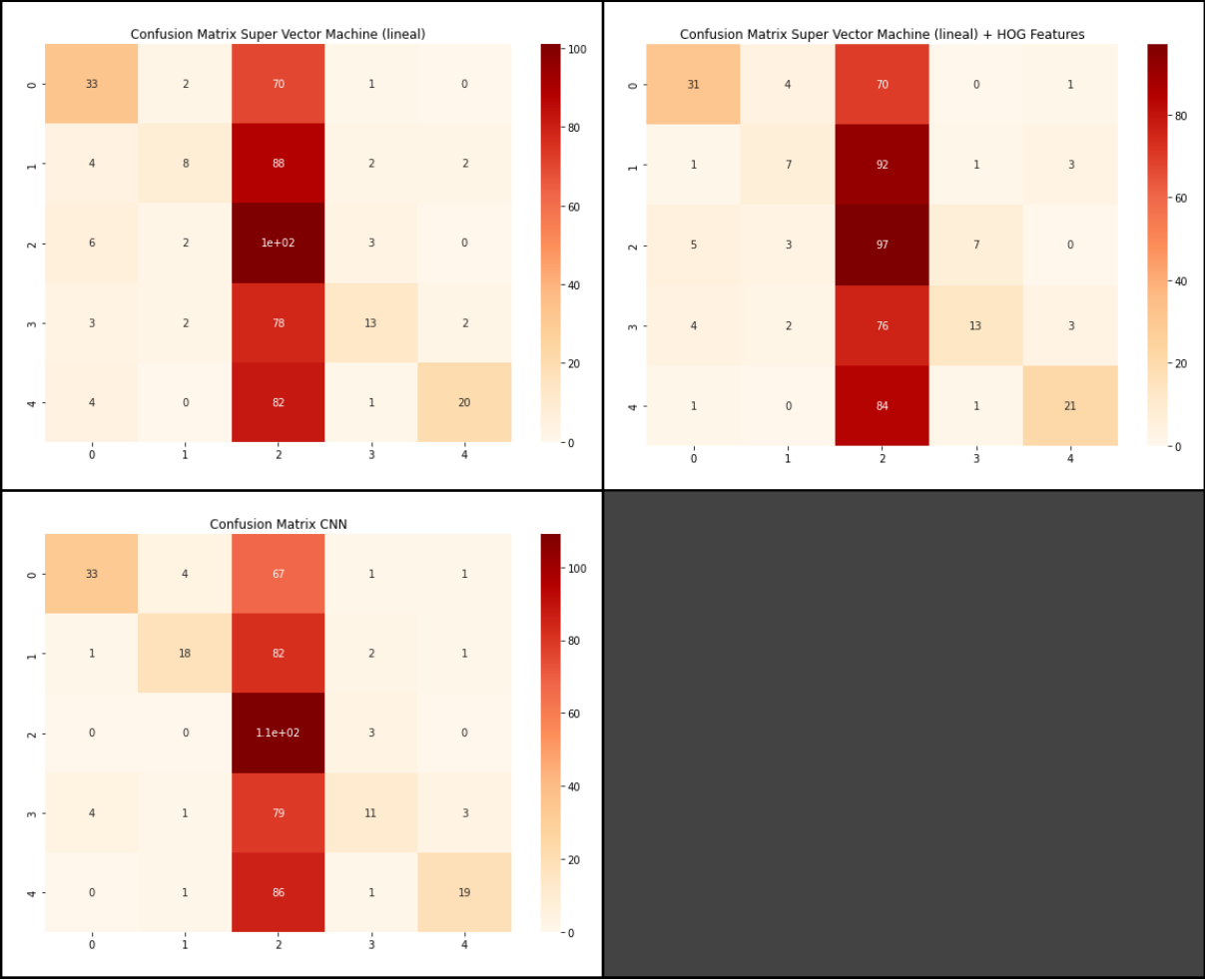
Imatges Color Filter

¼ Dataset

¼ 80/20	Precision		Recall		F1-Score		Temps	
	Sense	HOG	Sense	HOG	Sense	HOG	Sense	HOG
KNN	0.73	0.64	0.34	0.34	0.32	0.32	0.71	0.21
LR	0.64	0.60	0.34	0.34	0.32	0.32	10.42	0.37
NB	0.48	0.38	0.29	0.25	0.28	0.21	0.79	0.18
DT	0.43	0.33	0.24	0.24	0.14	0.16	2.03	0.12
RF	0.54	0.43	0.27	0.24	0.21	0.18	1.16	0.39
SVM	0.59	0.55	0.32	0.31	0.29	0.29	55.63	1.16
CNN	0.65		0.35		0.33		950.14	

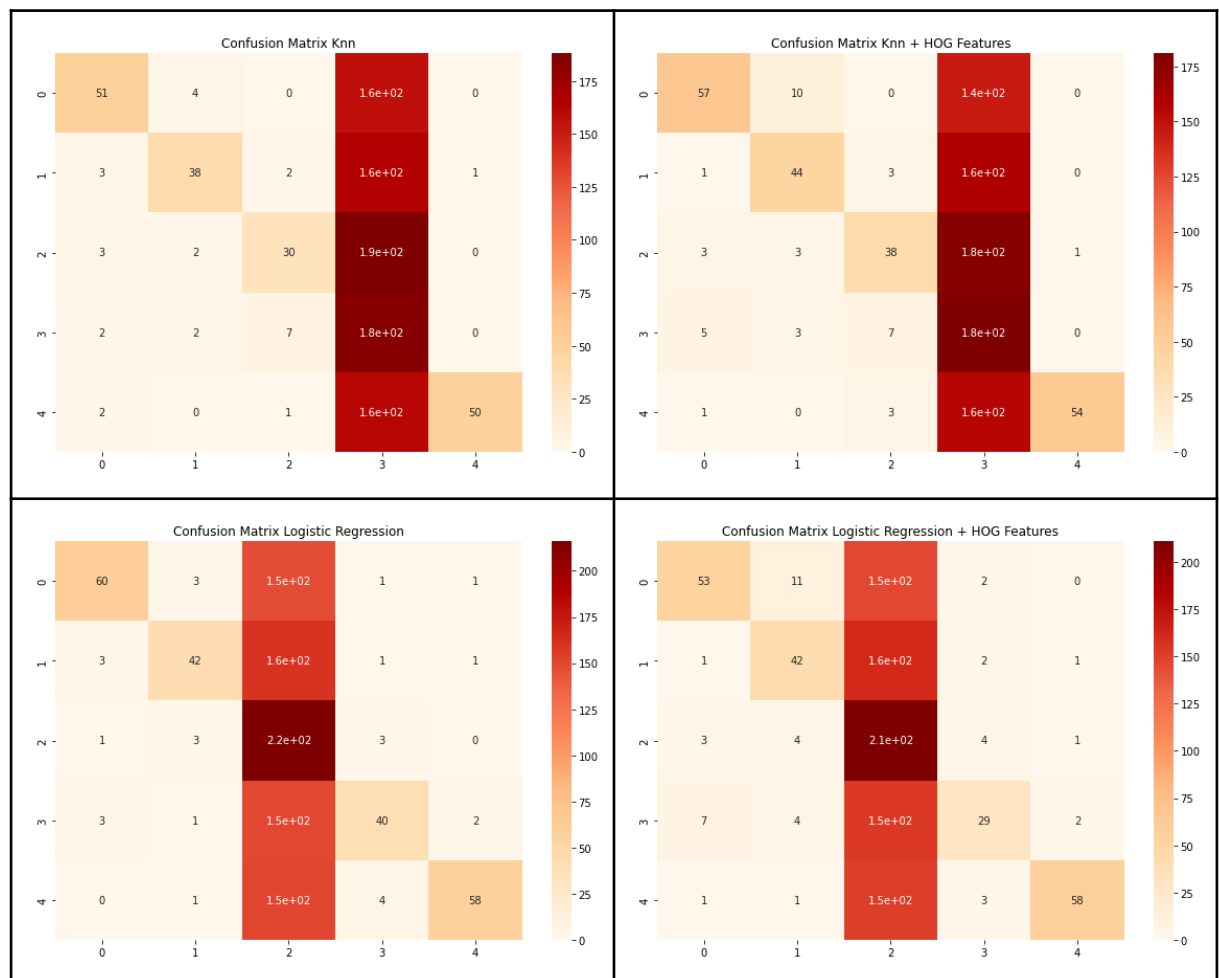


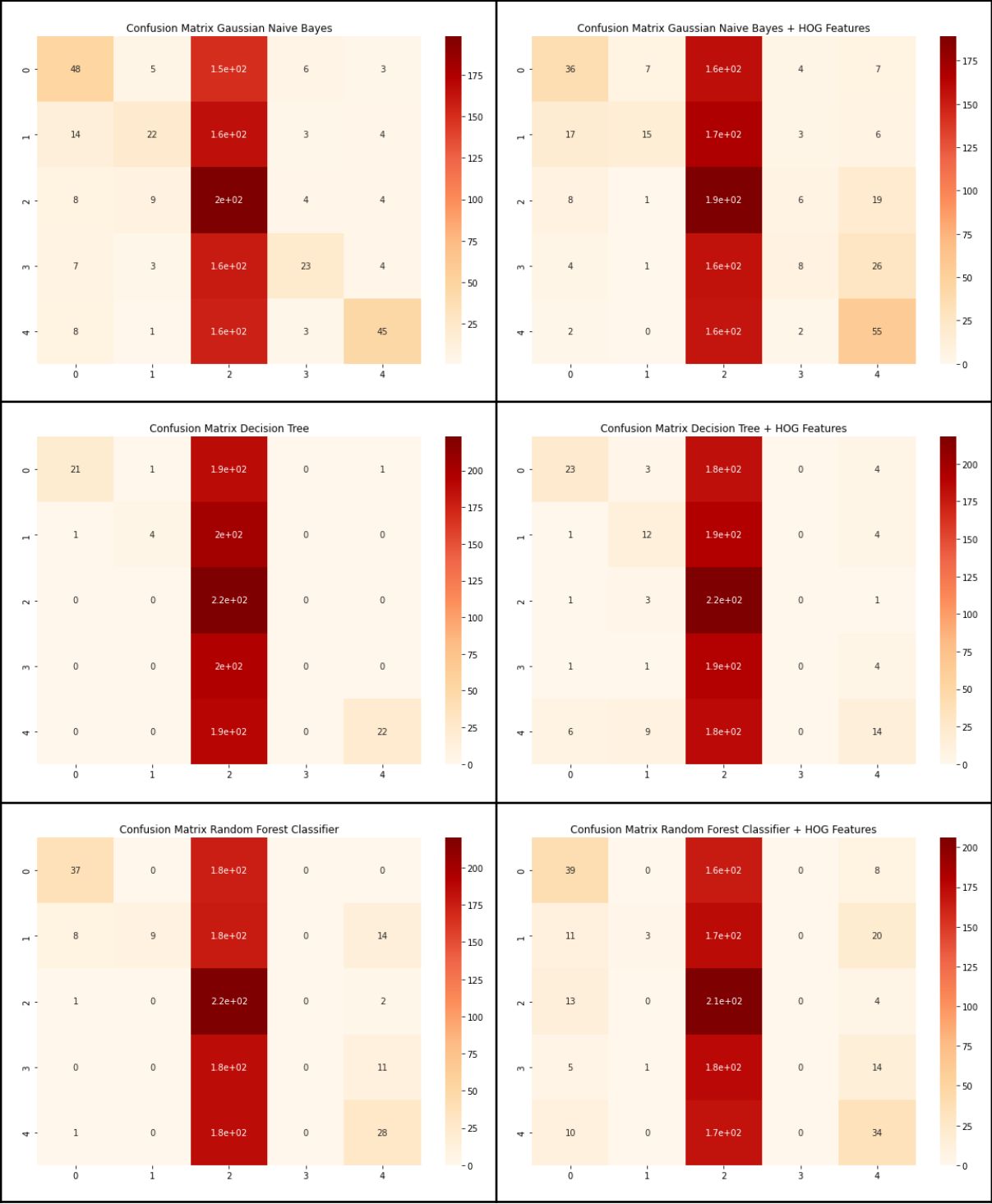


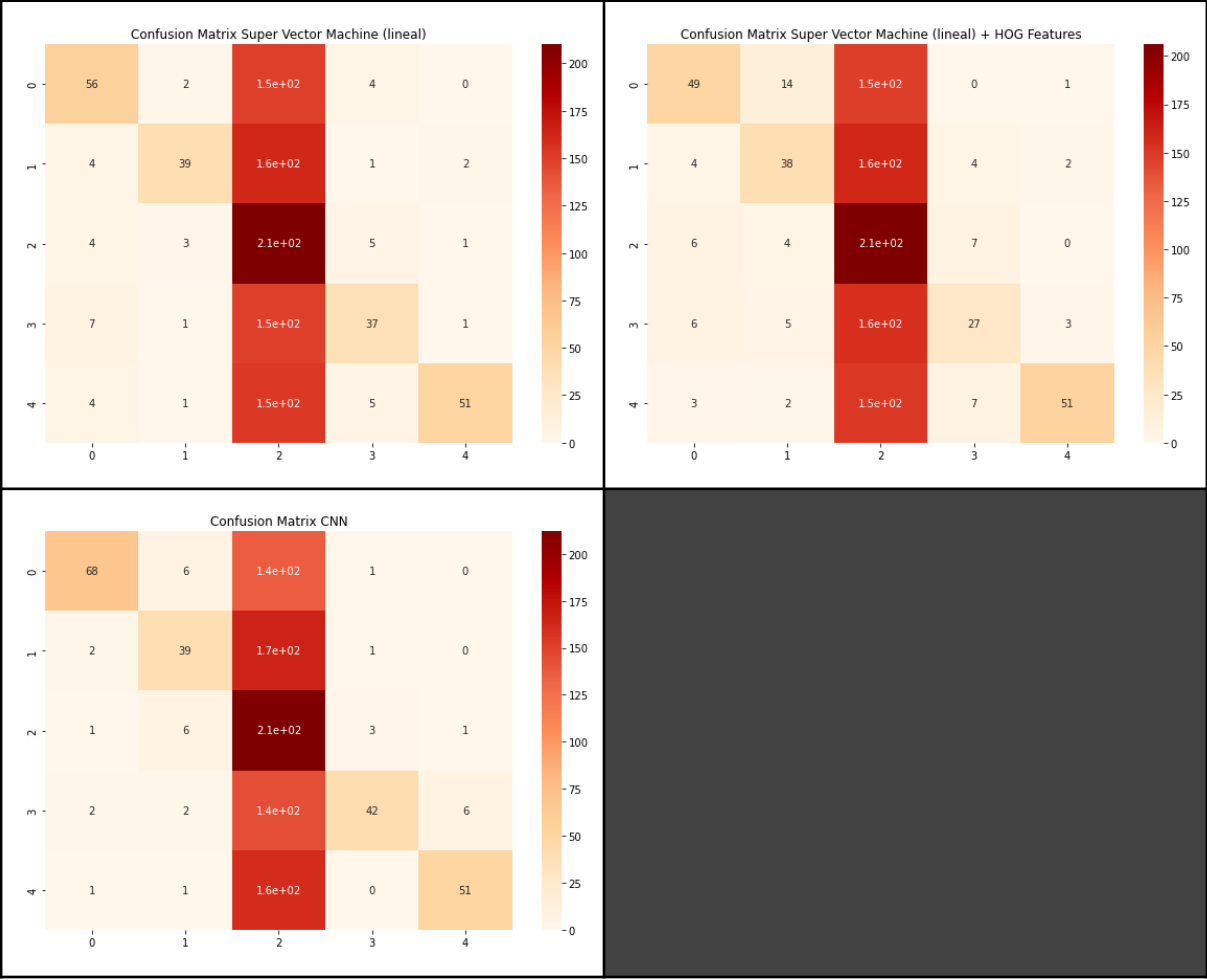


½ Dataset

½ 80/20	Precision		Recall		F1-Score		Temps	
	Sense	HOG	Sense	HOG	Sense	HOG	Sense	HOG
KNN	0.72	0.71	0.34	0.36	0.33	0.35	3.04	0.53
LR	0.74	0.68	0.39	0.36	0.38	0.35	22.12	0.92
NB	0.54	0.44	0.31	0.28	0.28	0.23	2.51	0.28
DT	0.59	0.38	0.24	0.24	0.15	0.15	5.45	0.51
RF	0.51	0.38	0.27	0.26	0.19	0.18	3.19	0.95
SVM	0.69	0.61	0.37	0.34	0.36	0.33	226.04	8.48
CNN	0.73		0.38		0.38		1892.20	



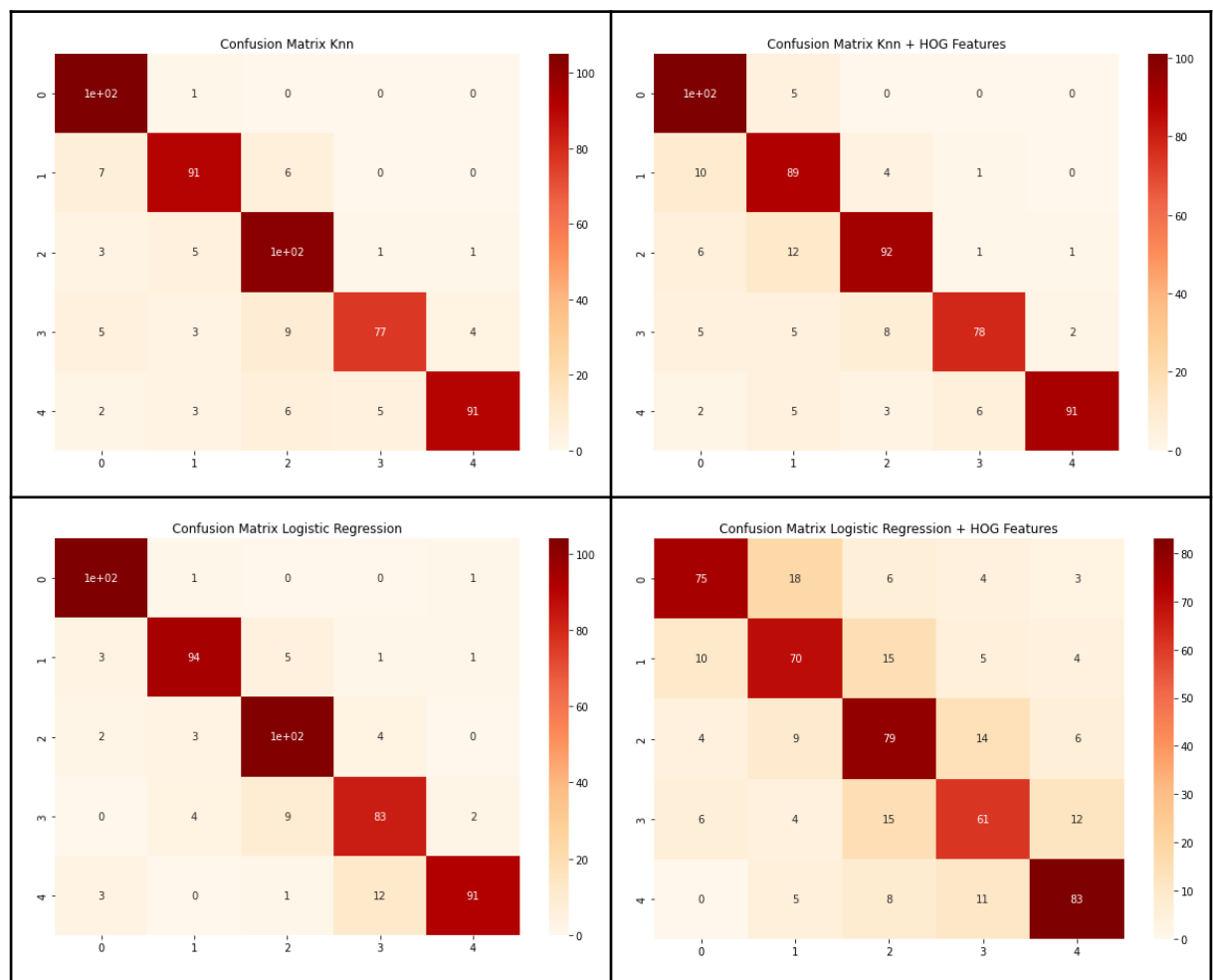


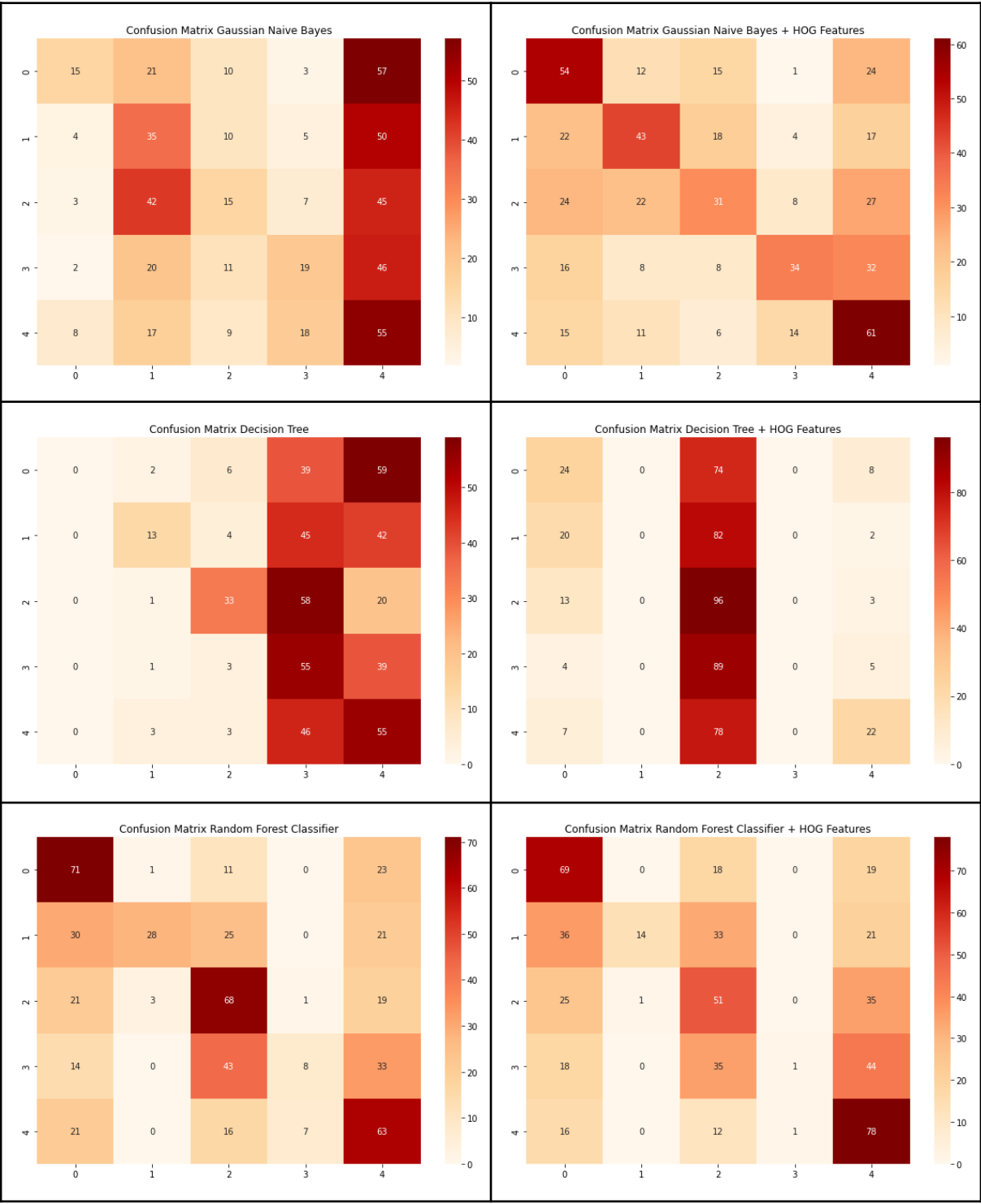


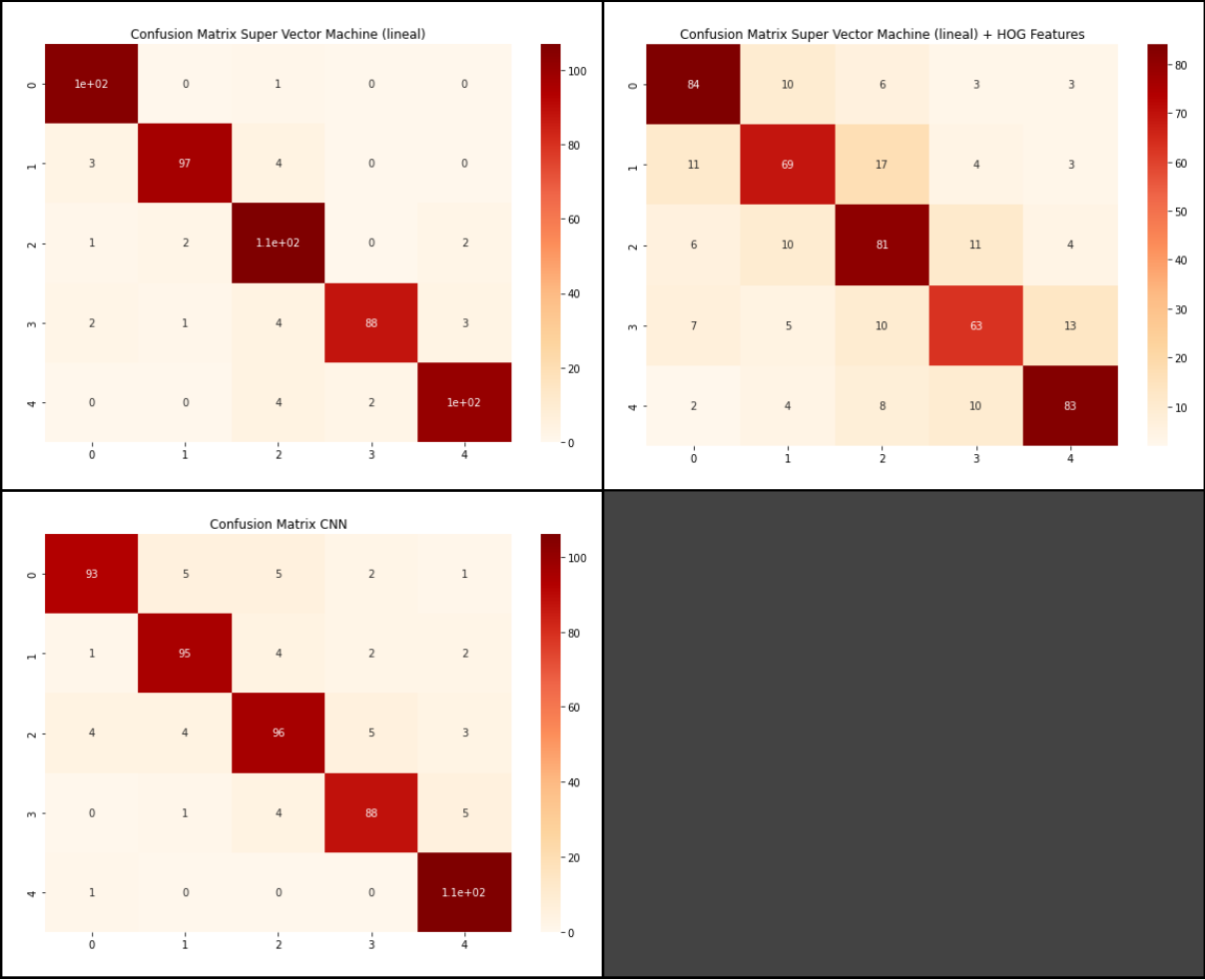
Imatges Otsu

¼ Dataset

¼ 80/20	Precision		Recall		F1-Score		Temps	
	Sense	HOG	Sense	HOG	Sense	HOG	Sense	HOG
KNN	0.89	0.86	0.88	0.86	0.88	0.86	0.77	0.22
LR	0.90	0.70	0.90	0.70	0.90	0.70	6.52	0.51
NB	0.32	0.44	0.26	0.42	0.25	0.42	0.81	0.15
DT	0.36	0.23	0.30	0.26	0.26	0.19	2.76	0.37
RF	0.53	0.51	0.44	0.40	0.41	0.33	1.61	0.59
SVM	0.95	0.72	0.94	0.72	0.94	0.72	36.69	0.88
CNN	0.91		0.91		0.91		976.40	

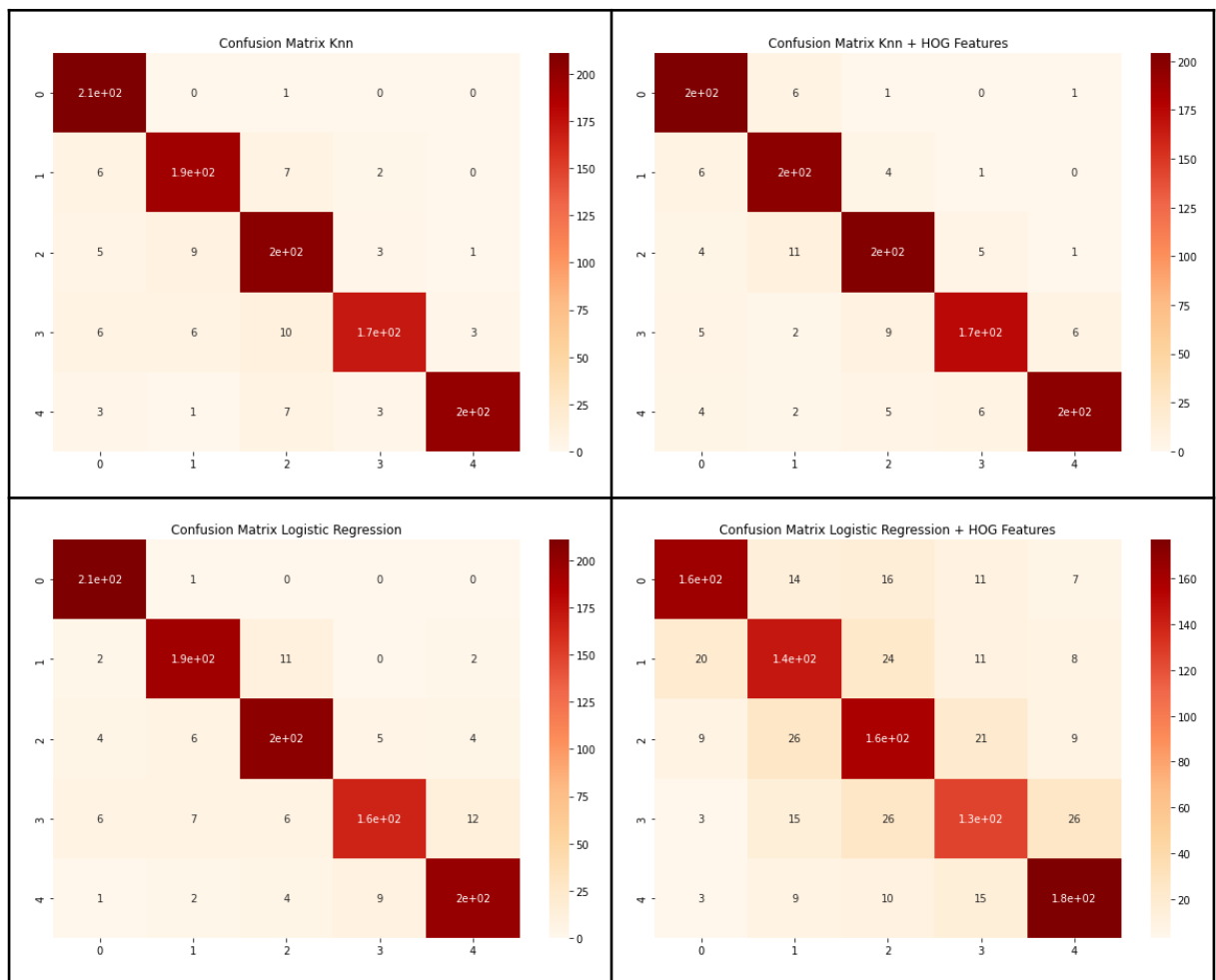


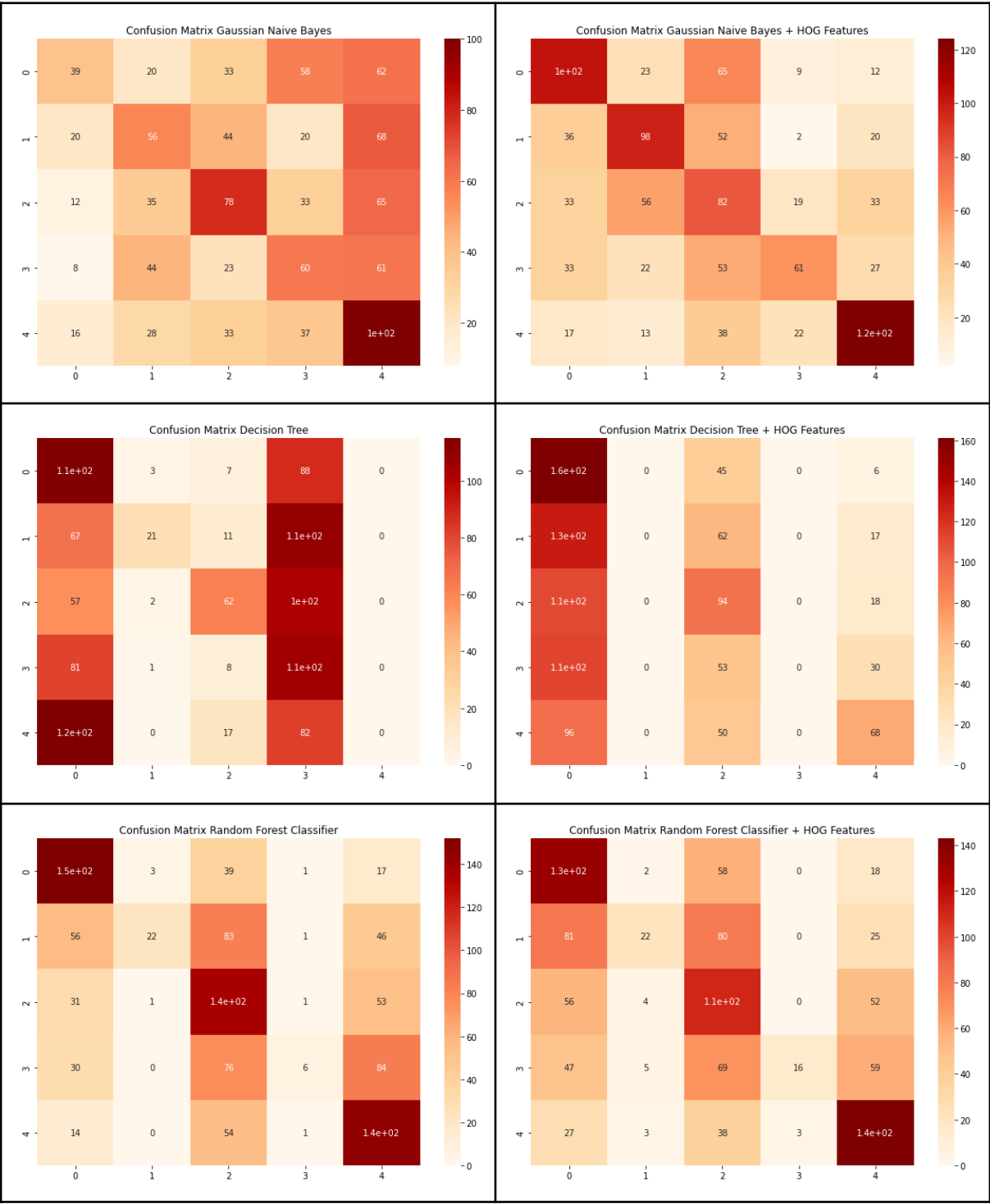


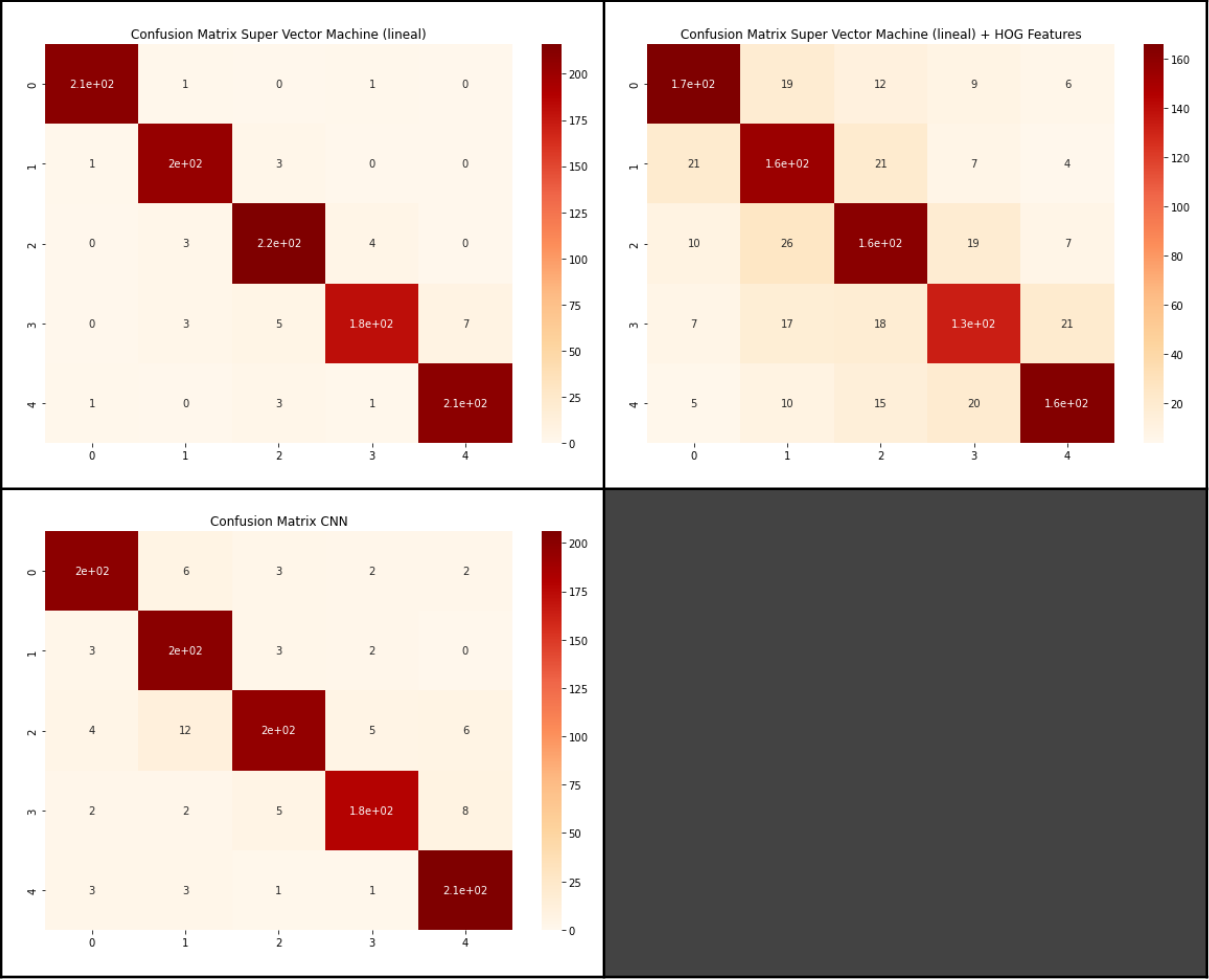


½ Dataset

½	Precision		Recall		F1-Score		Temps	
80/20	Sense	HOG	Sense	HOG	Sense	HOG	Sense	HOG
KNN	0.93	0.93	0.93	0.92	0.93	0.92	1.91	0.28
LR	0.92	0.73	0.92	0.73	0.92	0.73	12.07	0.75
NB	0.33	0.46	0.32	0.44	0.31	0.45	1.58	0.15
DT	0.37	0.21	0.29	0.30	0.24	0.23	5.43	0.42
RF	0.55	0.52	0.43	0.40	0.37	0.35	3.27	1.19
SVM	0.97	0.74	0.97	0.74	0.97	0.74	98.71	4.52
CNN	0.93		0.93		0.93		1935.74	

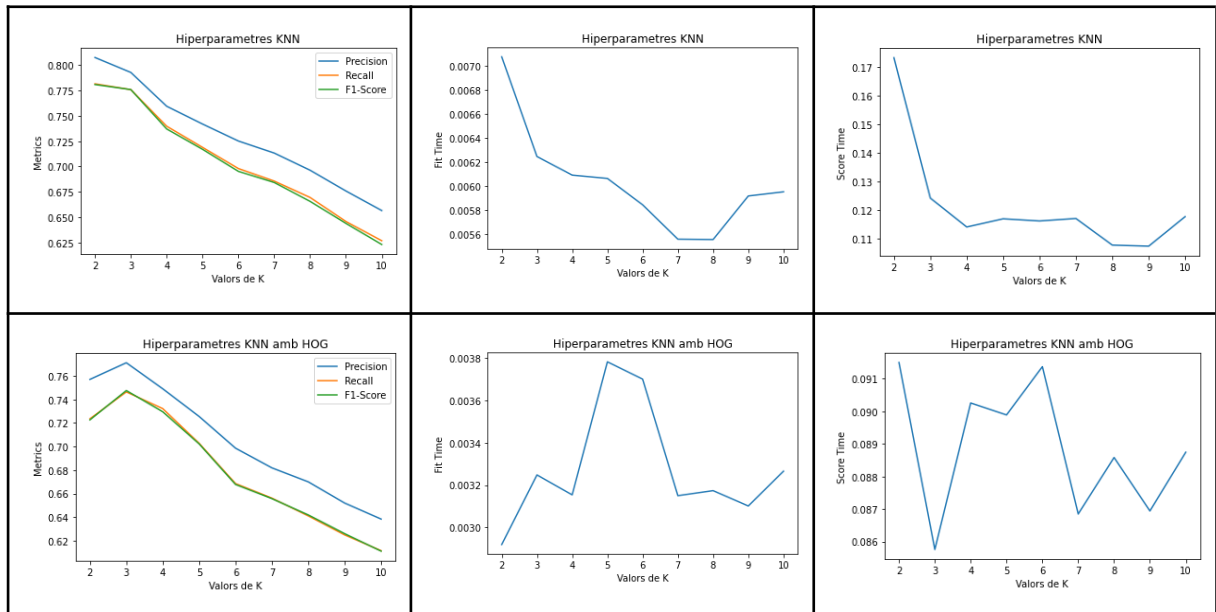




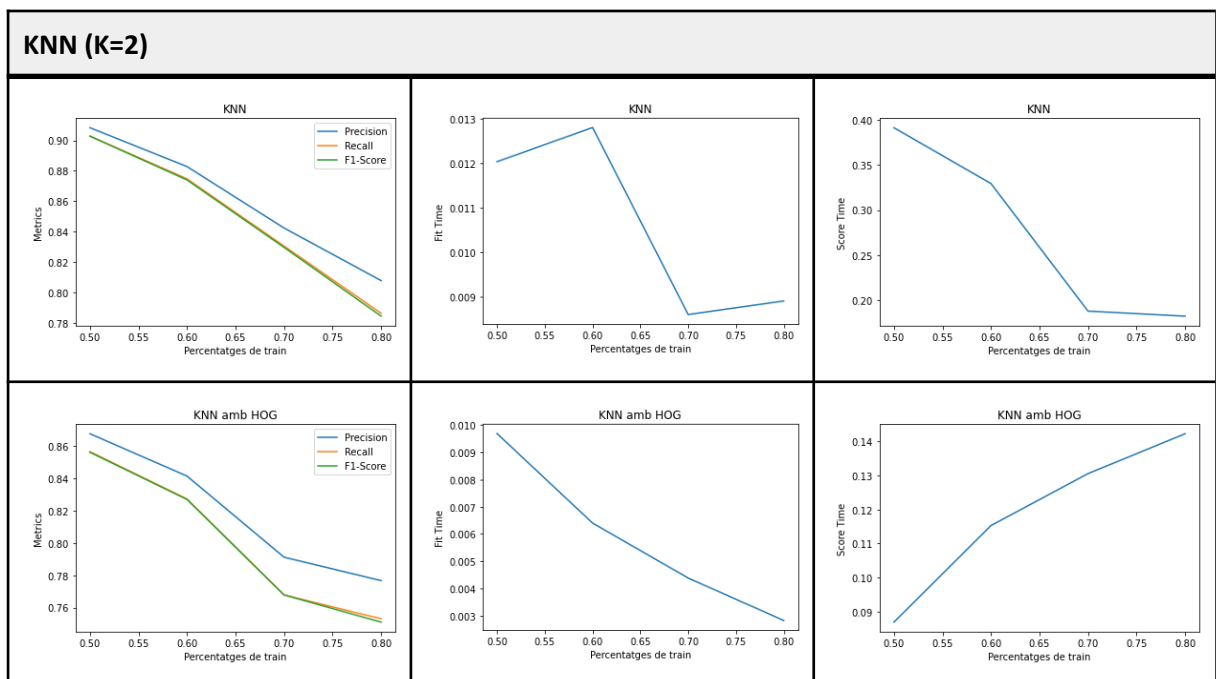


Validació millors resultats

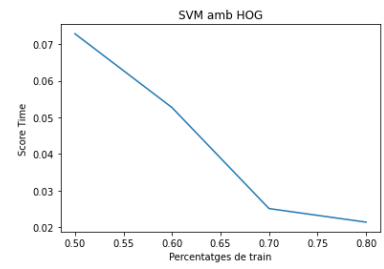
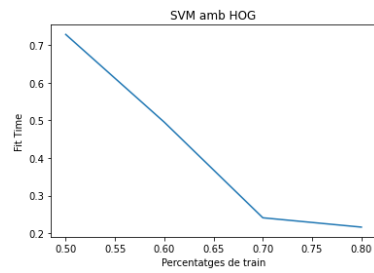
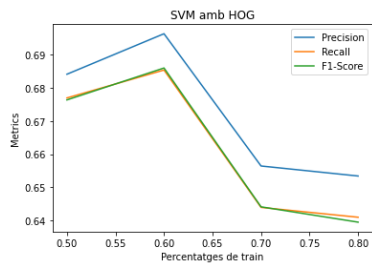
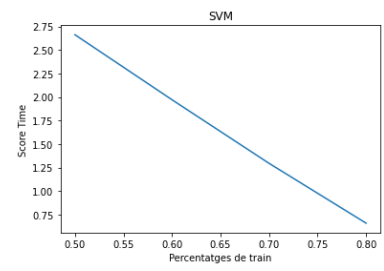
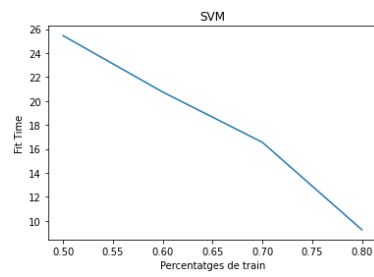
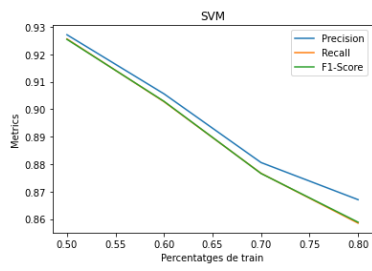
Hiperparametres KNN



Canvis de percentatges (Otsu)



SVM lineal



CNN

