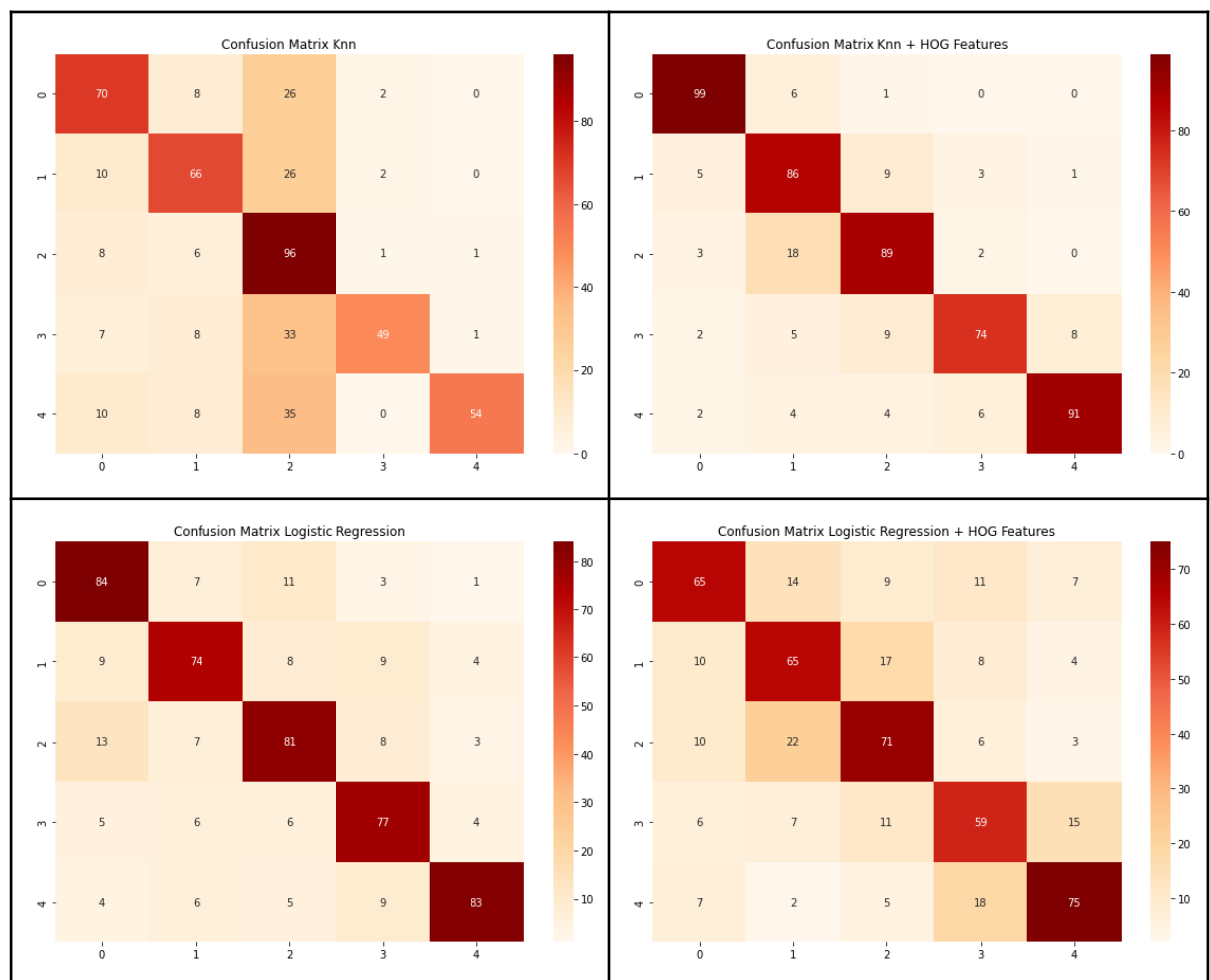
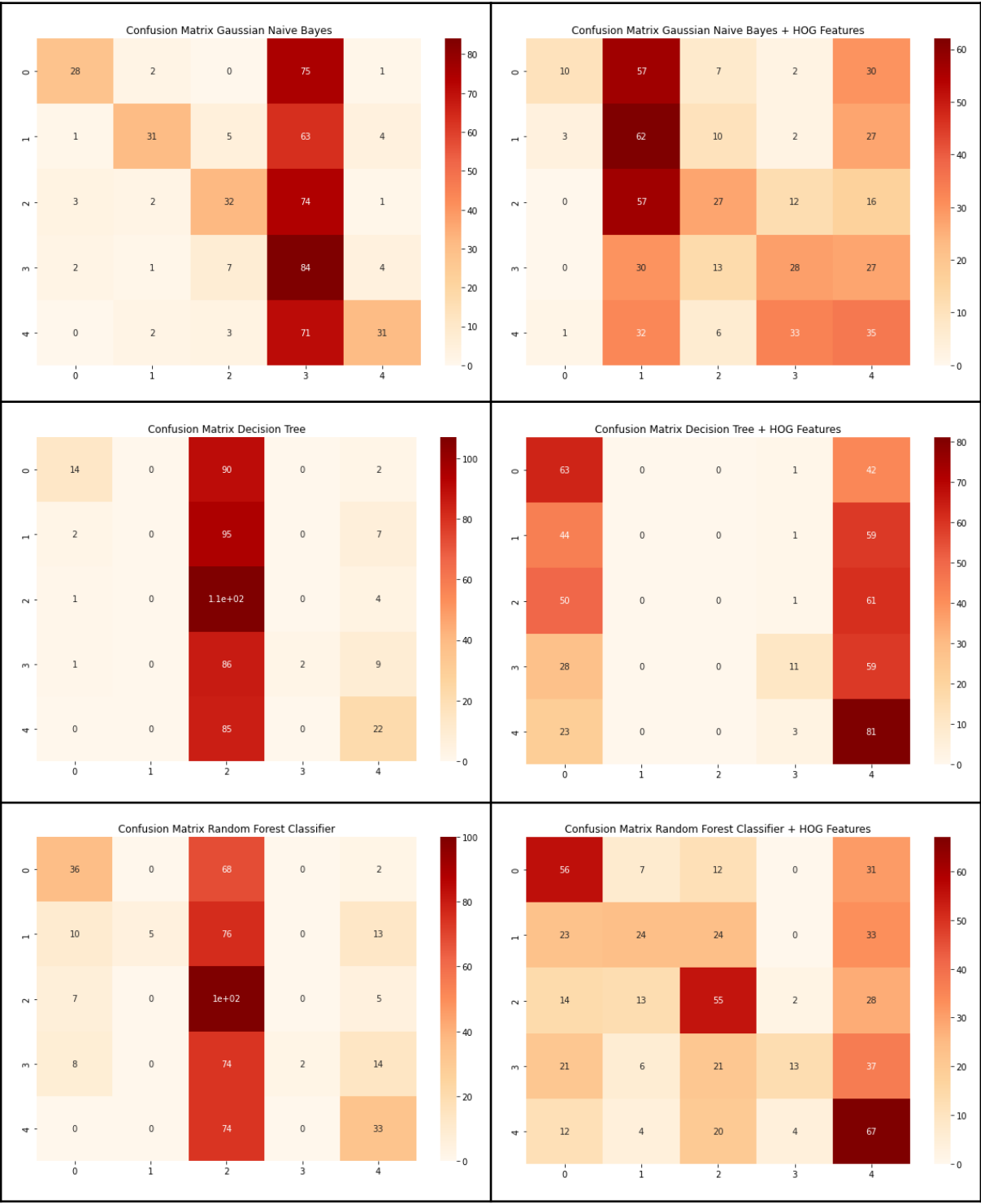


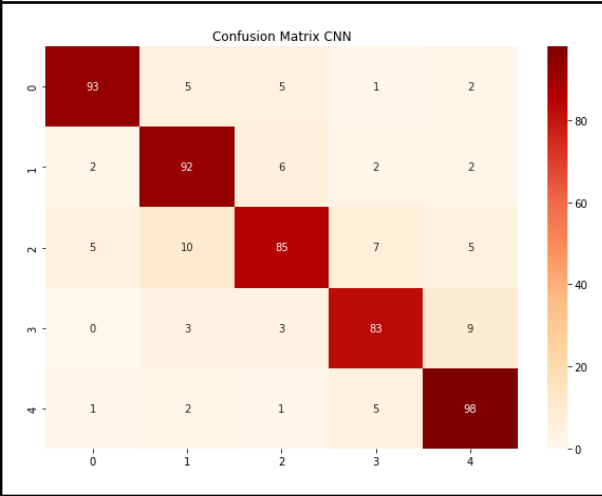
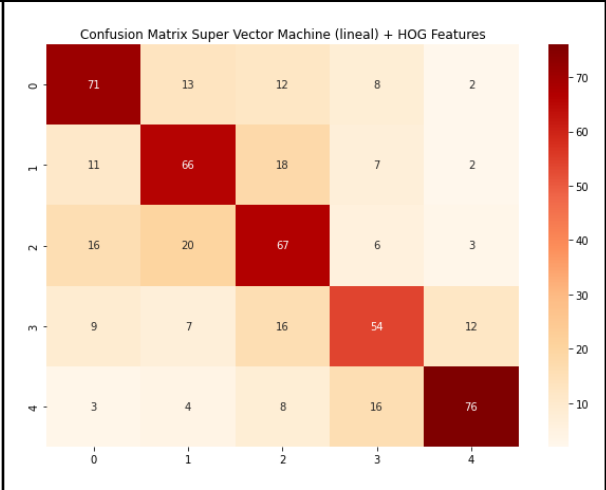
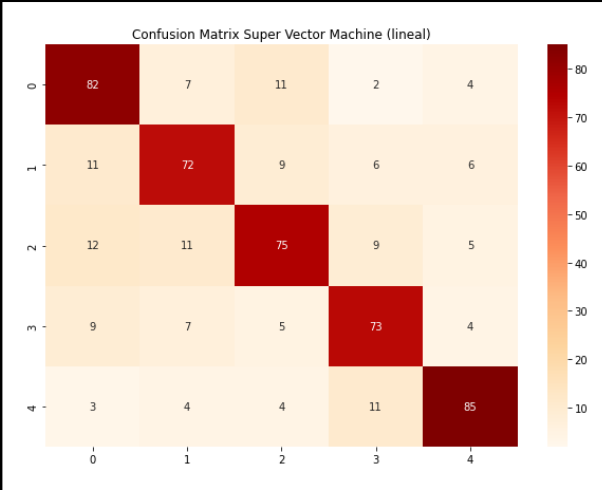
Imatges Sobel

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	

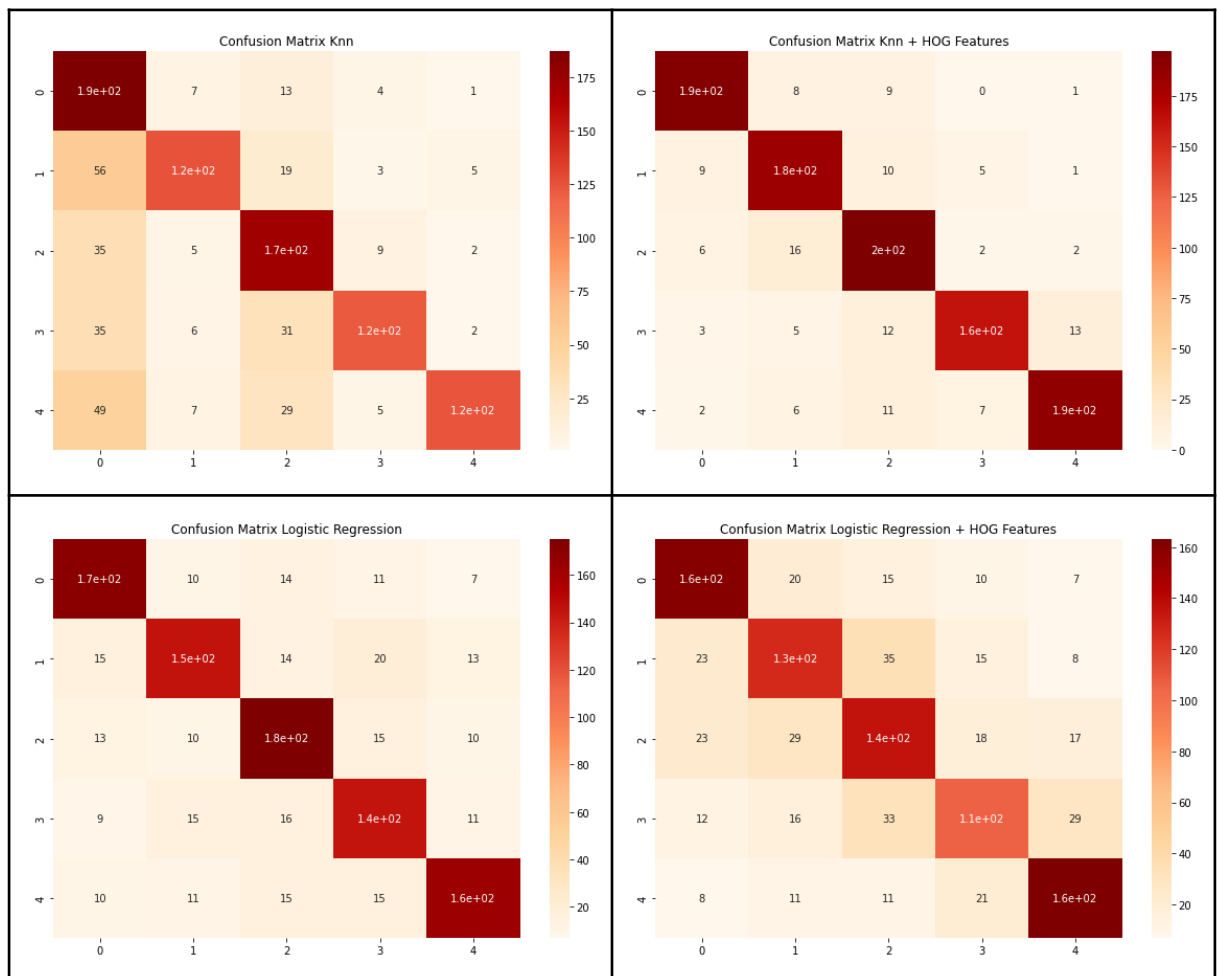


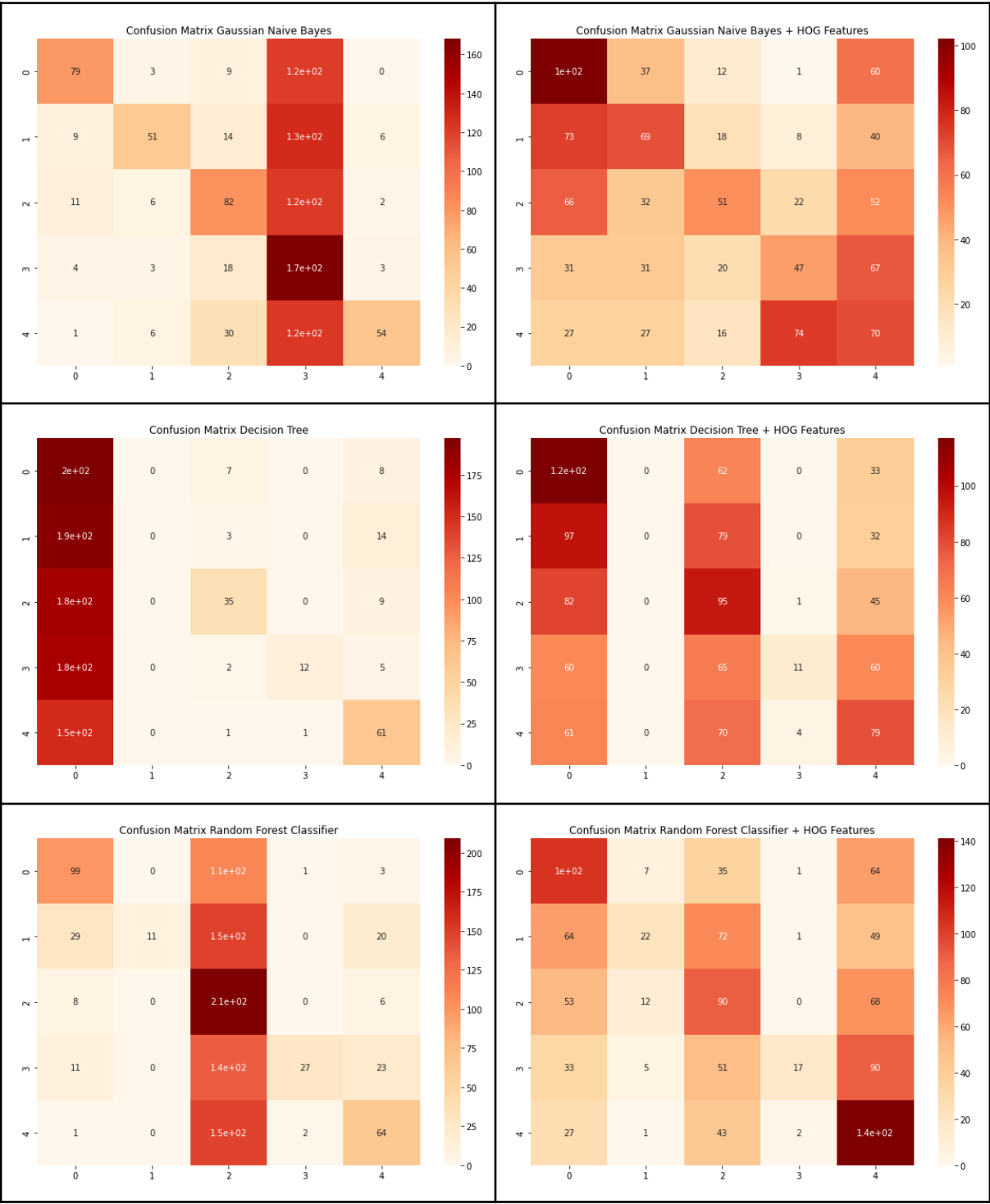


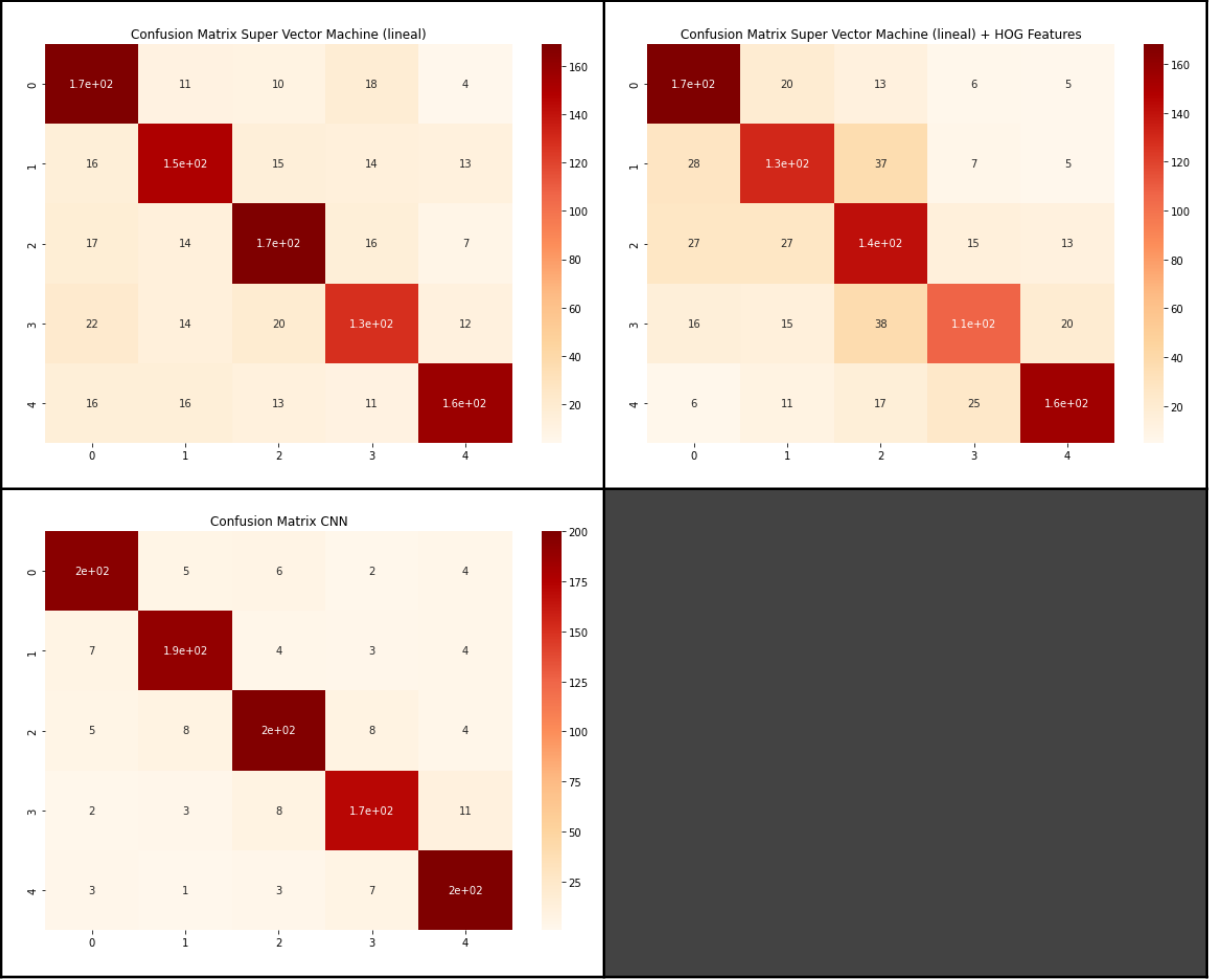


½ Dataset

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	



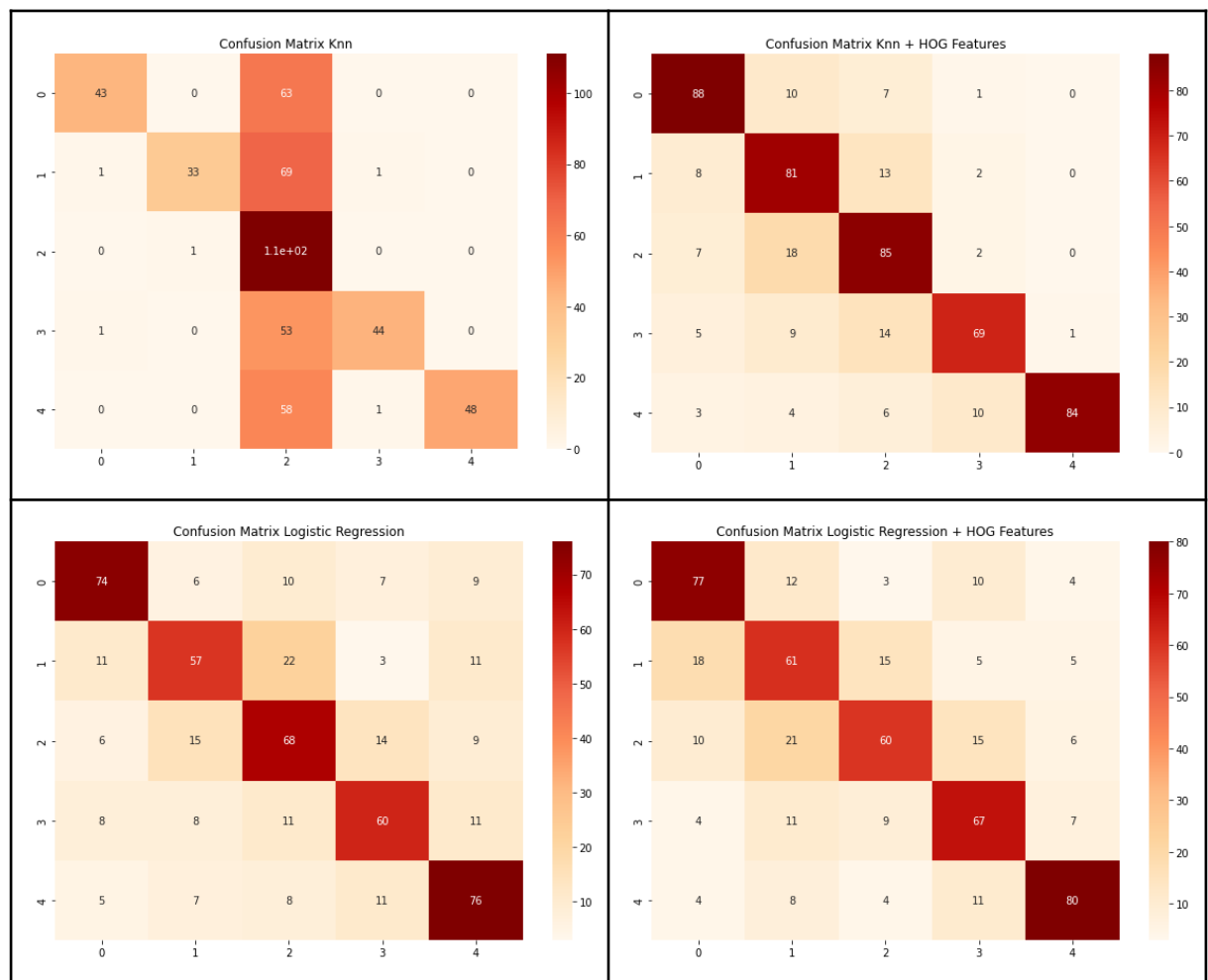


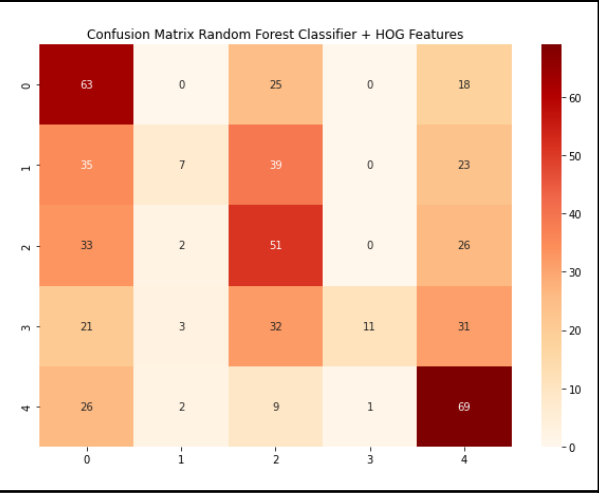
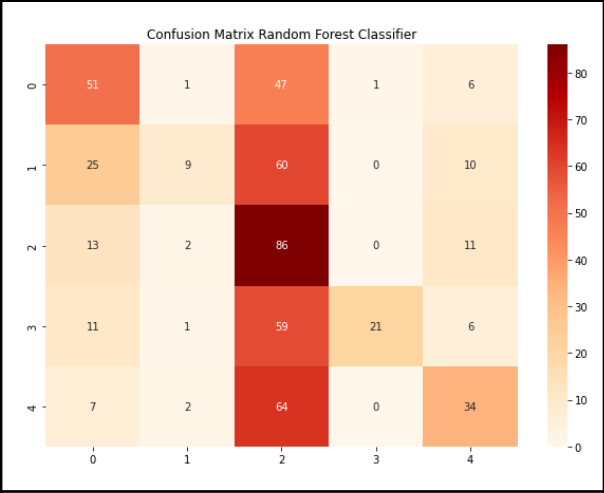
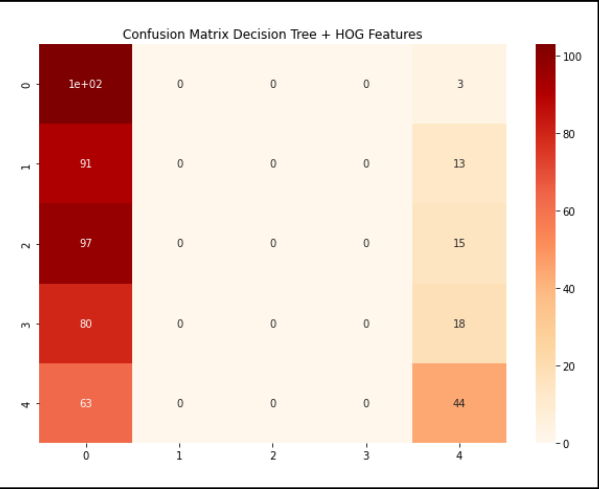
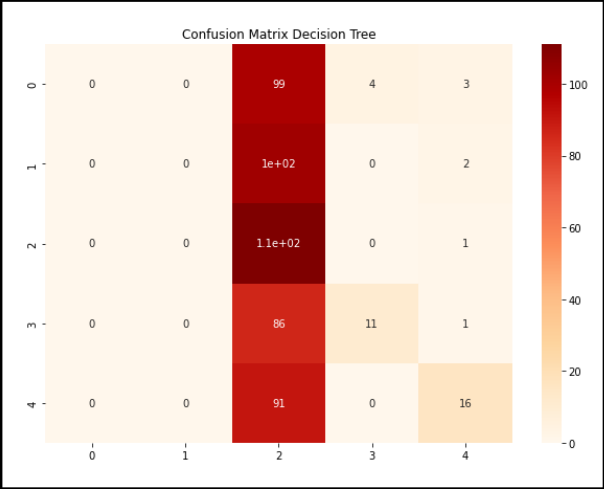
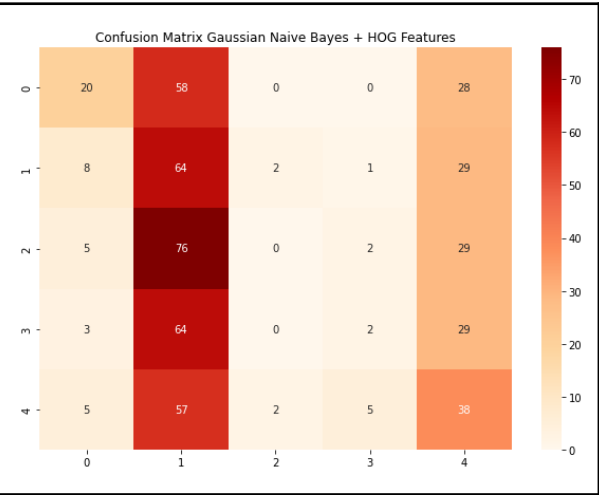
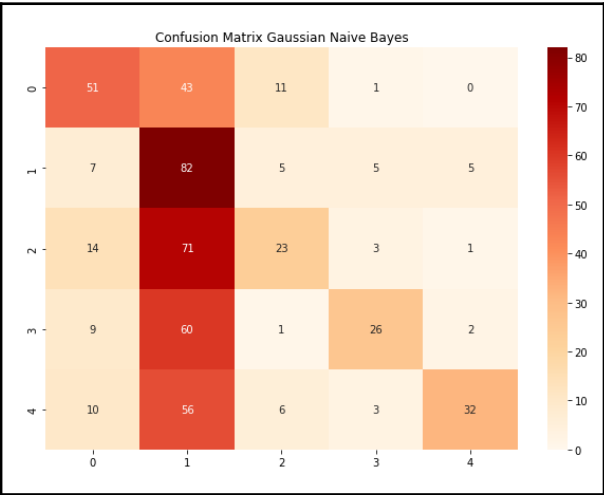


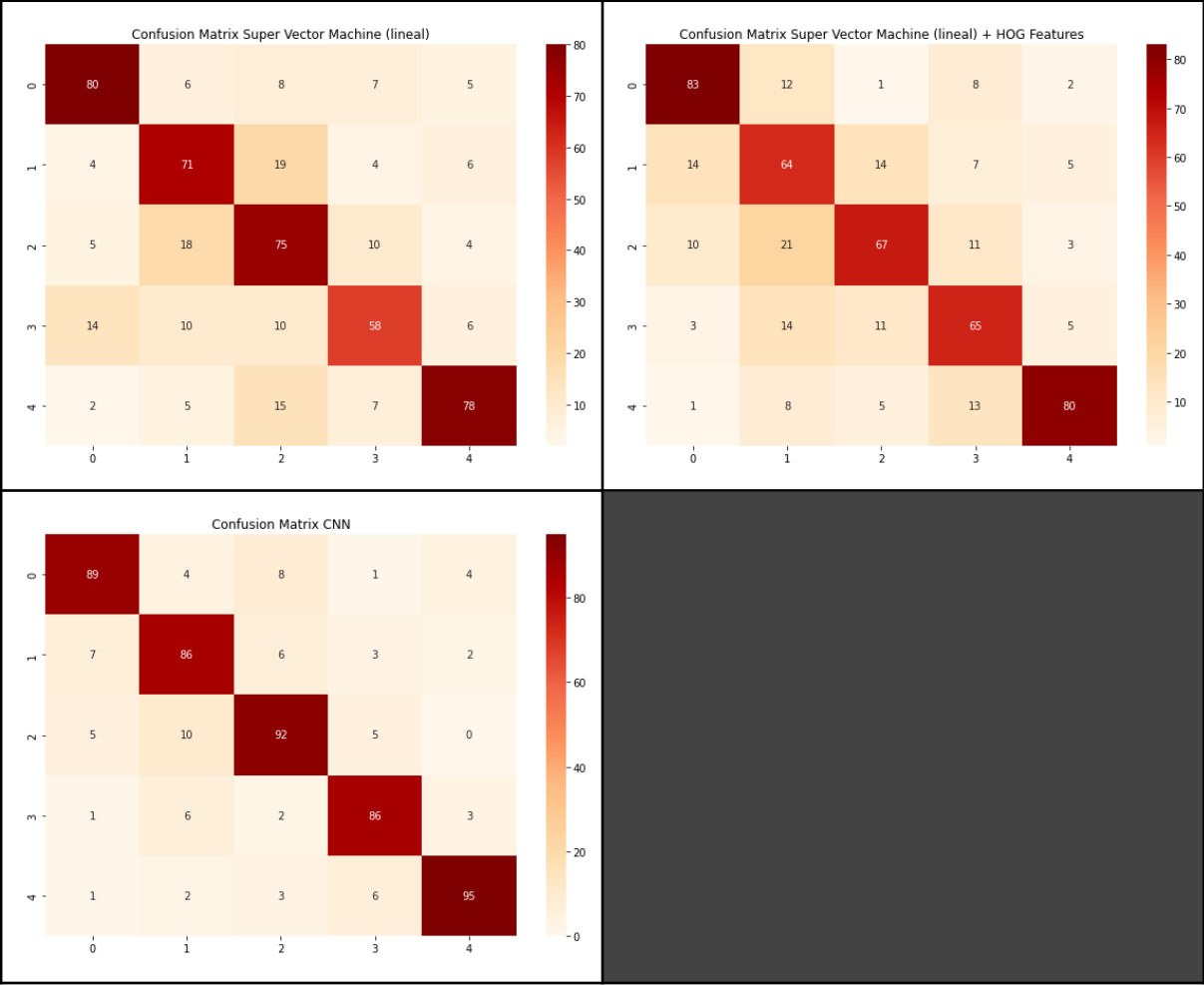
Imatges Canny

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	

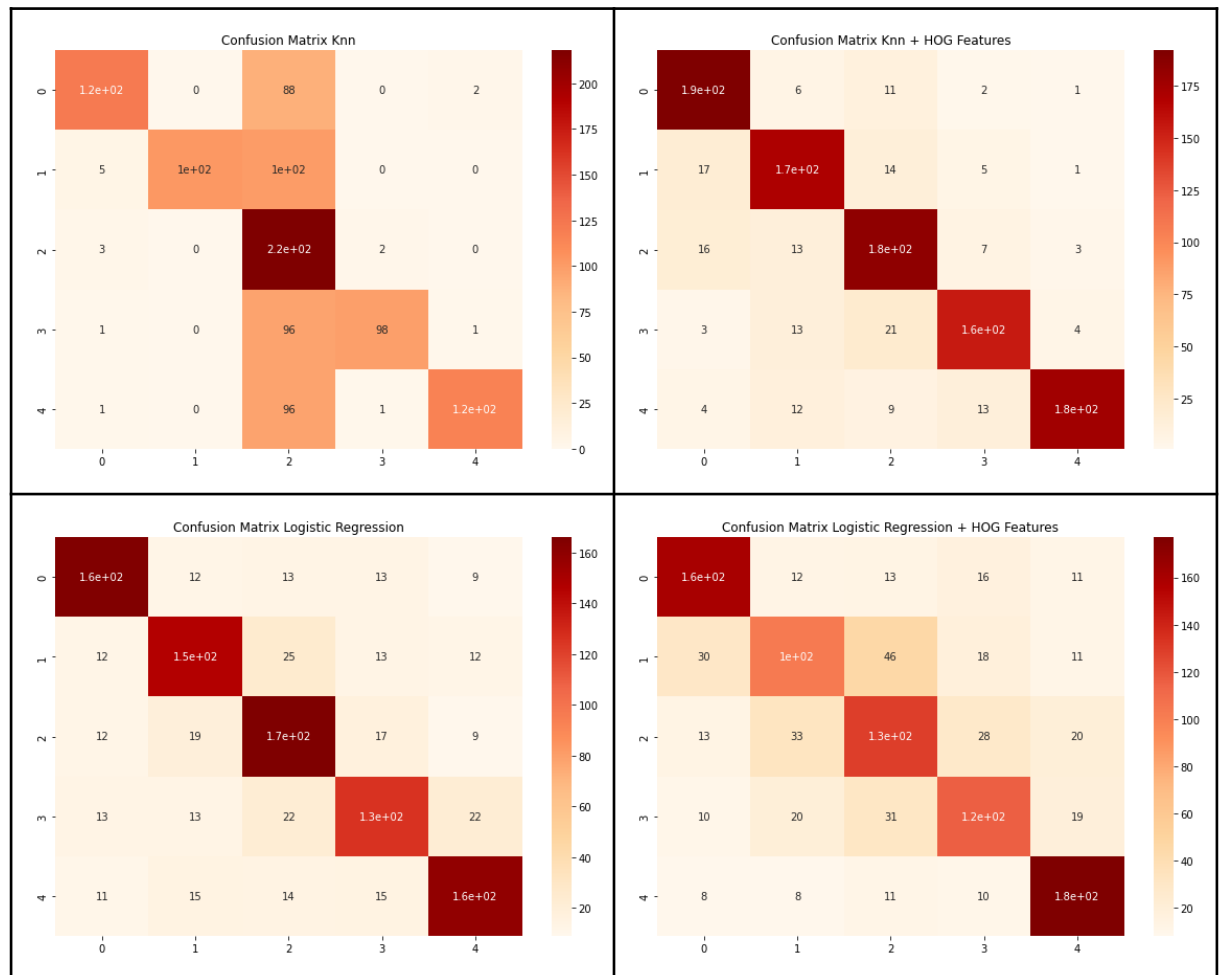


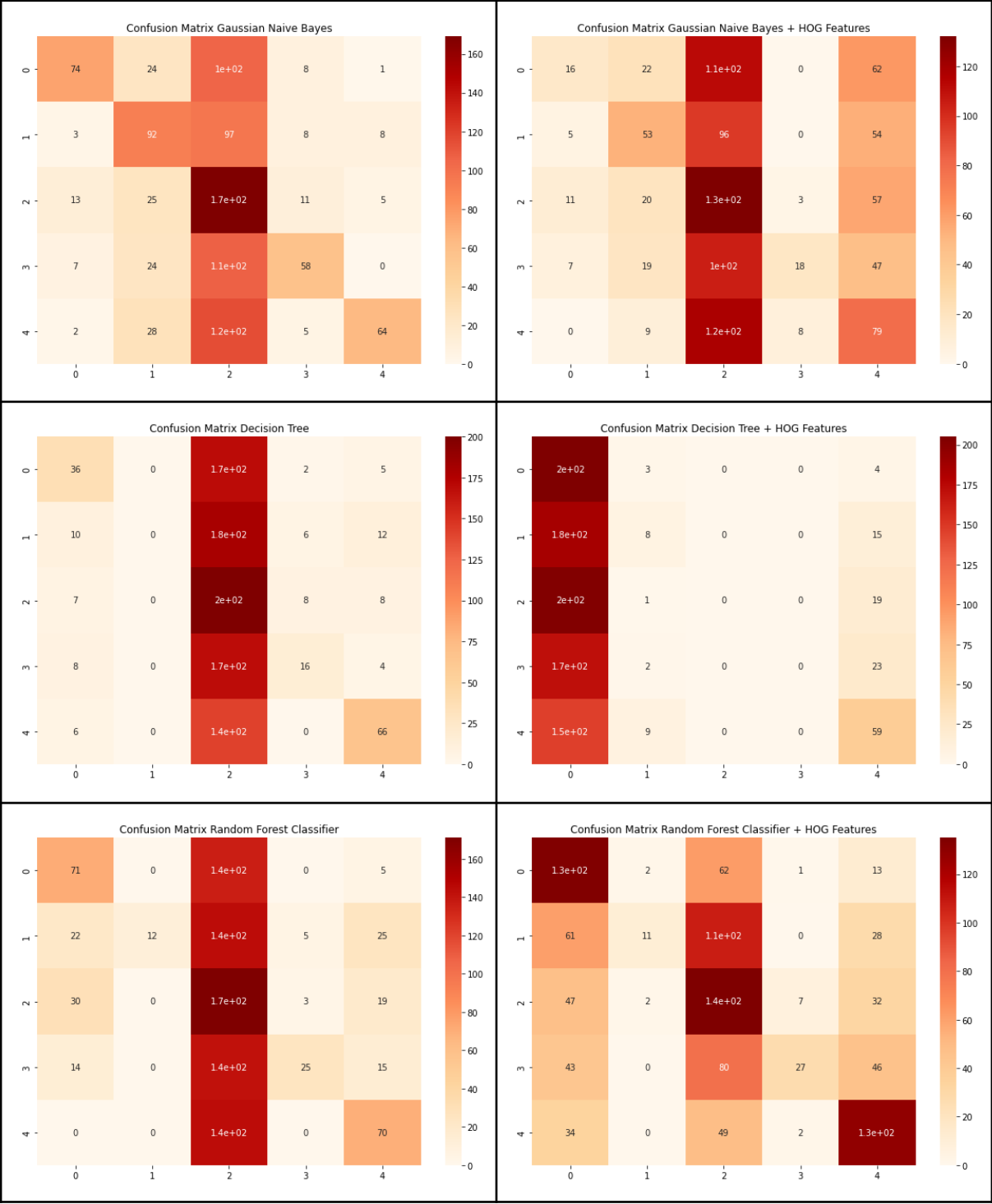


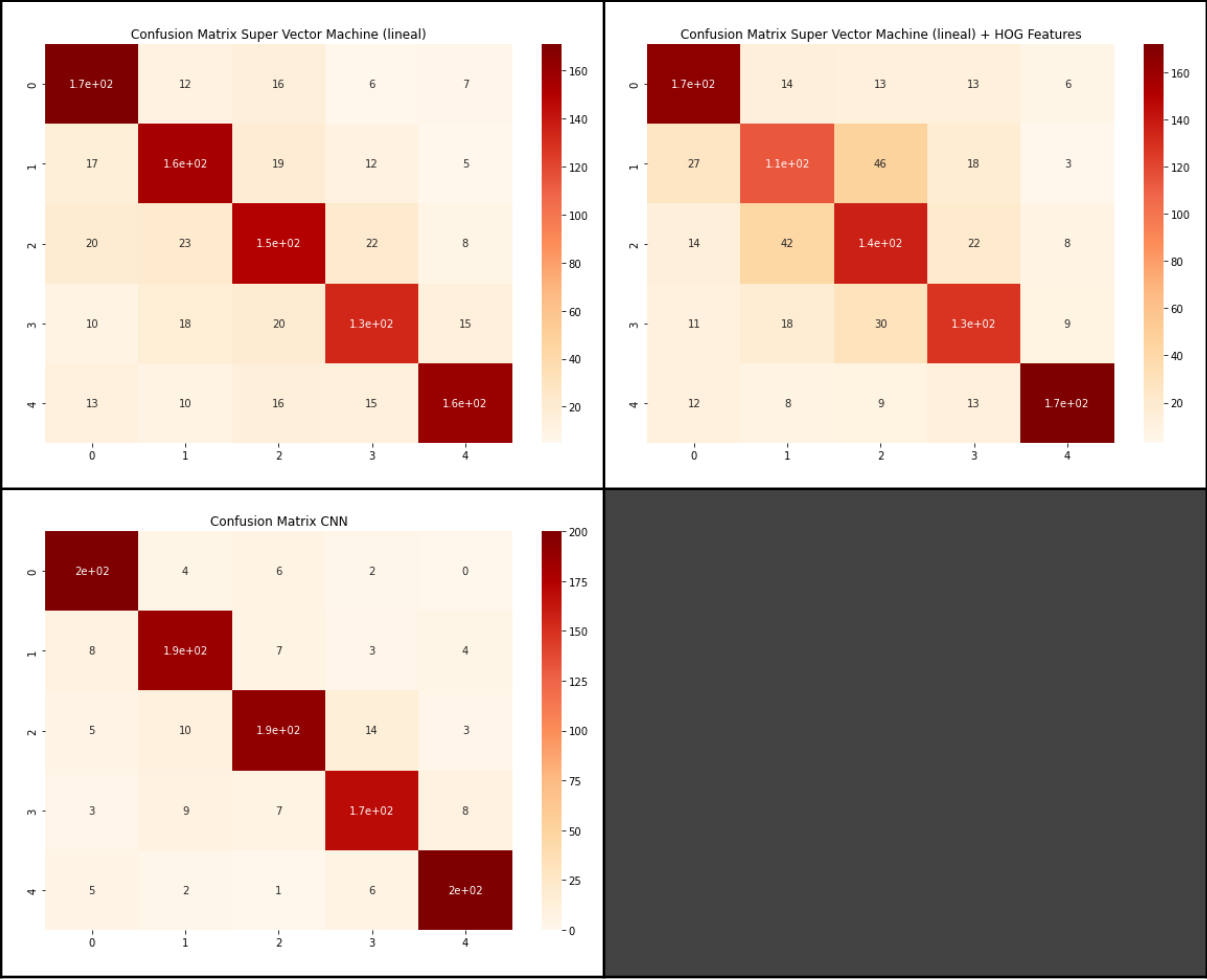


½ Dataset

½	Precision		Recall		F1-Score		Temps	
80/20	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	



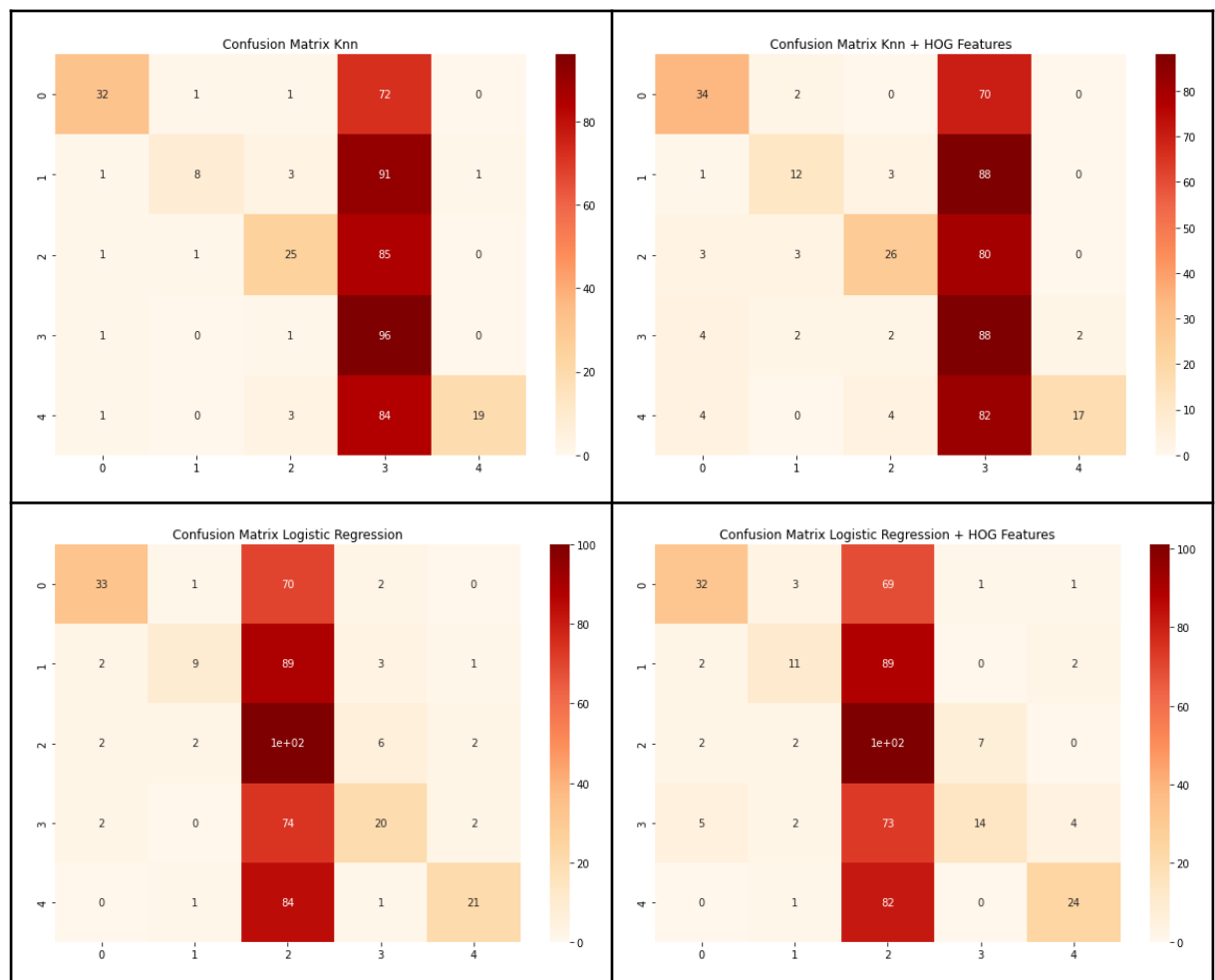


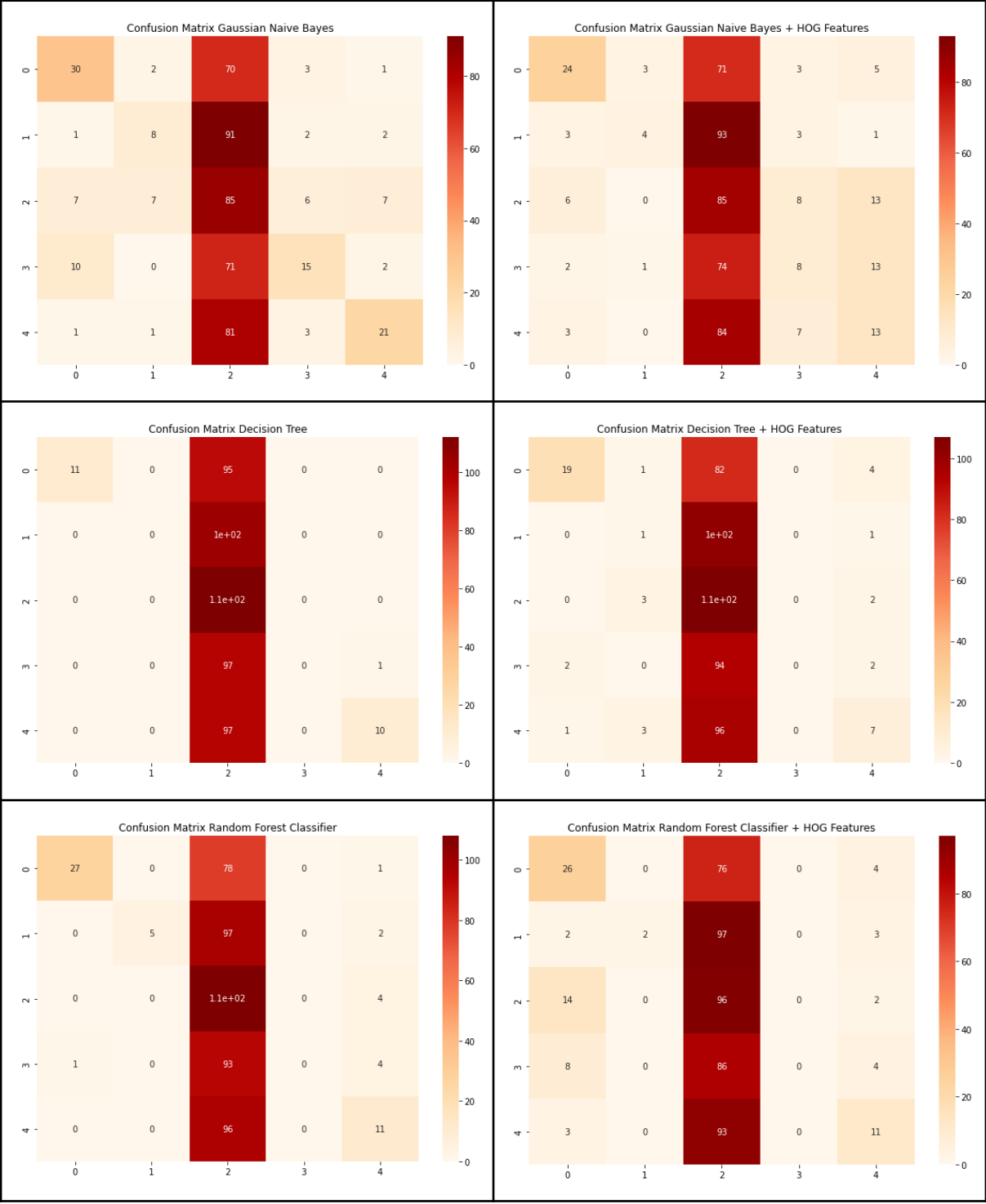


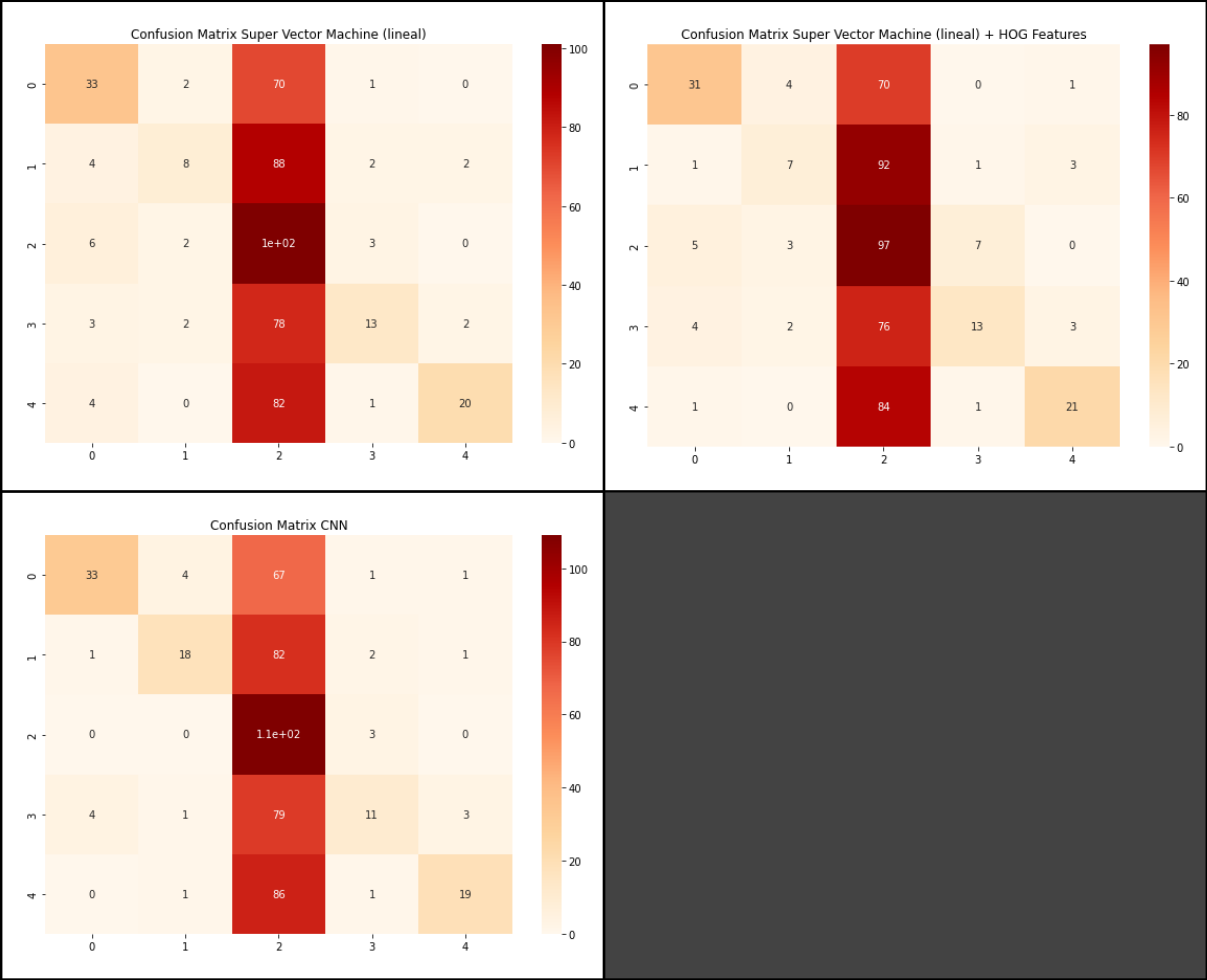
Images Color Filter

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	

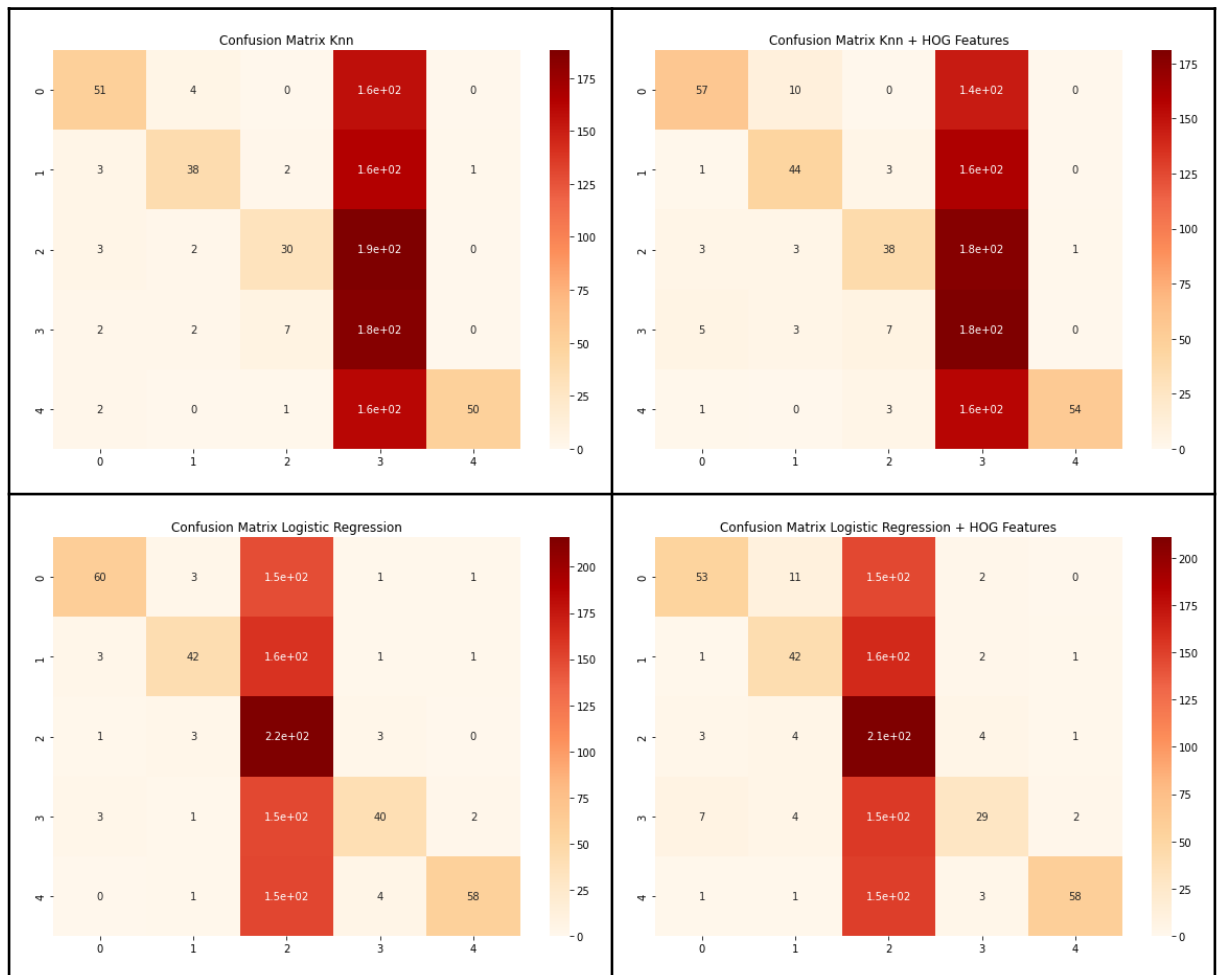


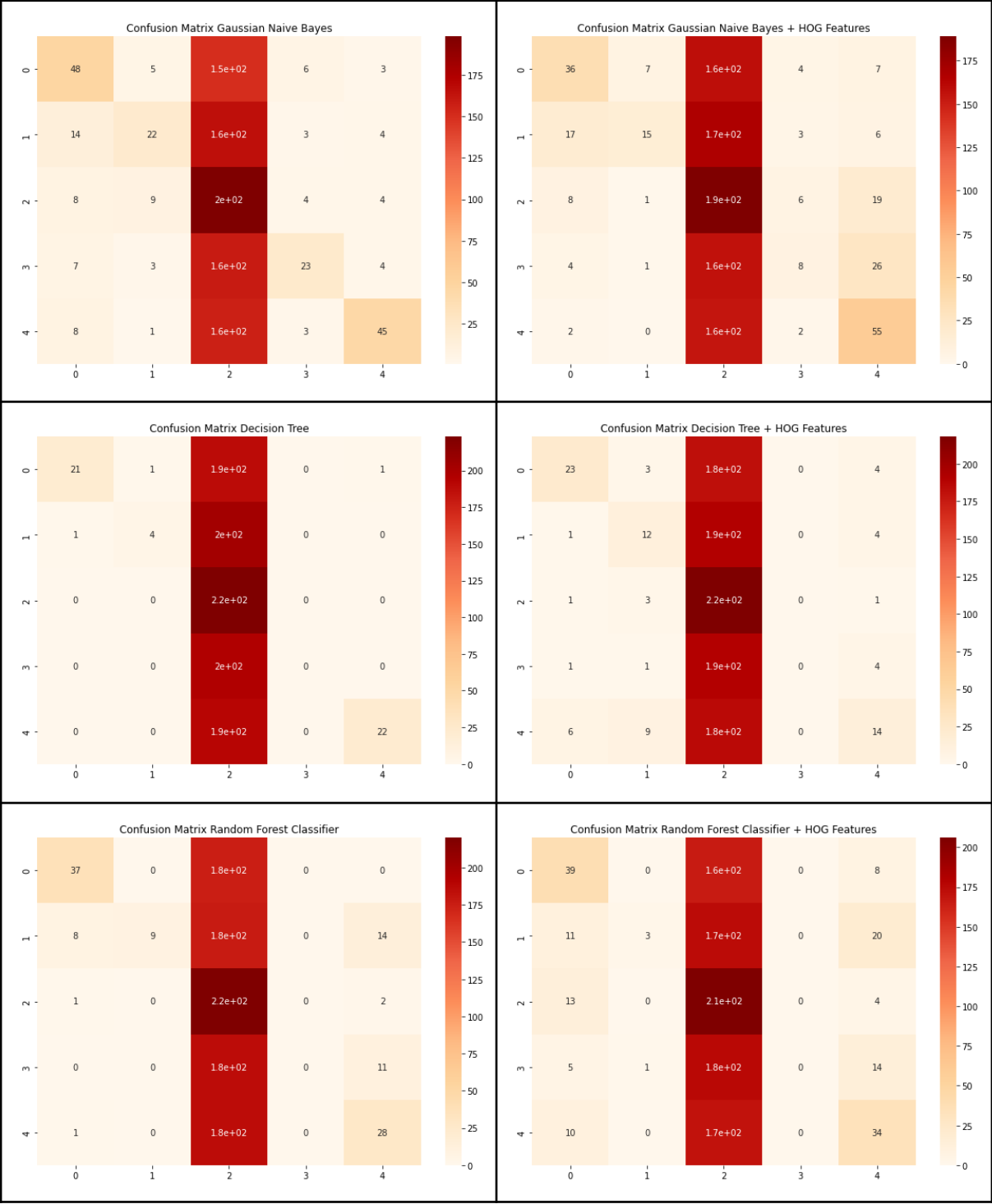


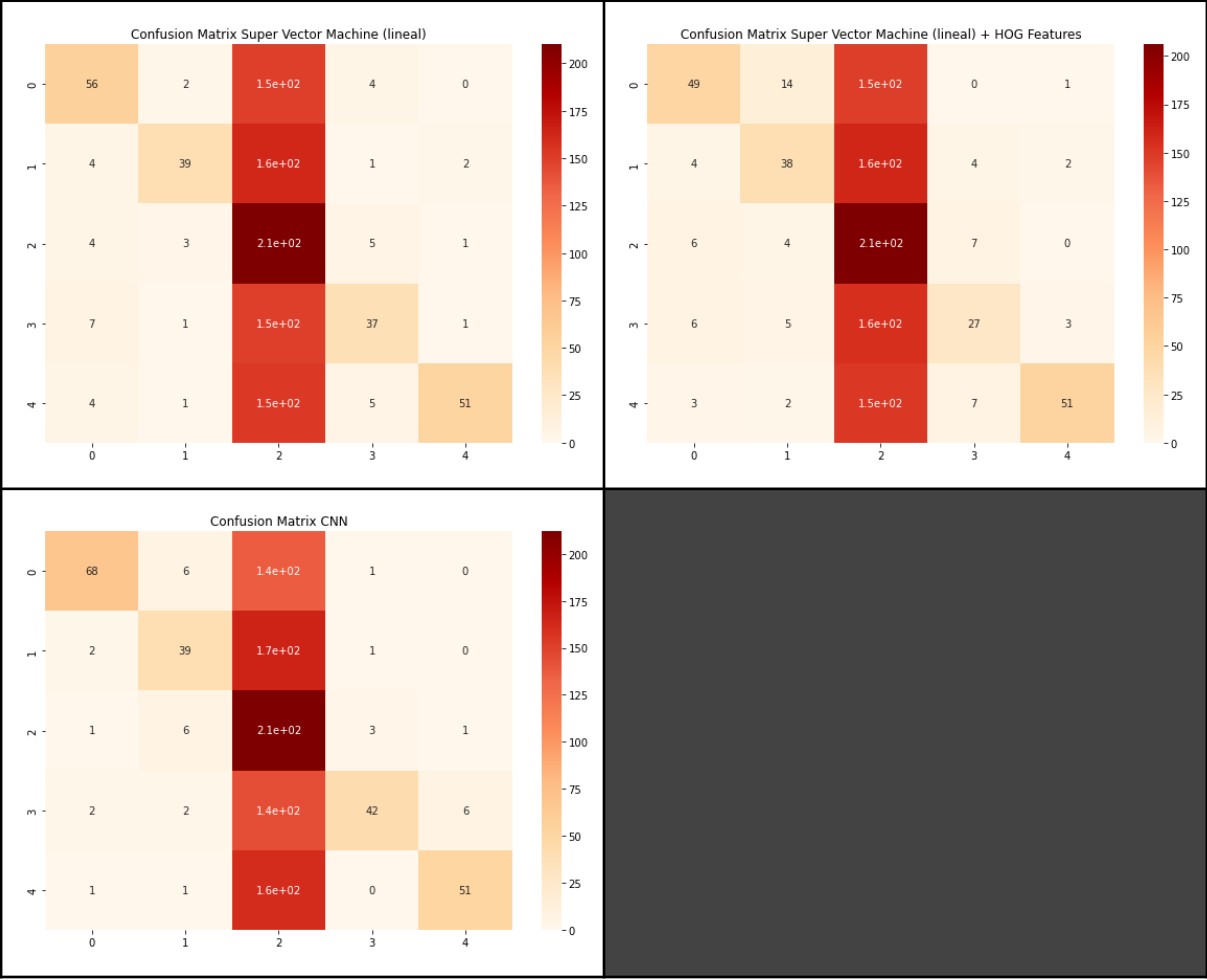


½ Dataset

½	Precision		Recall		F1-Score		Temps	
80/20	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	



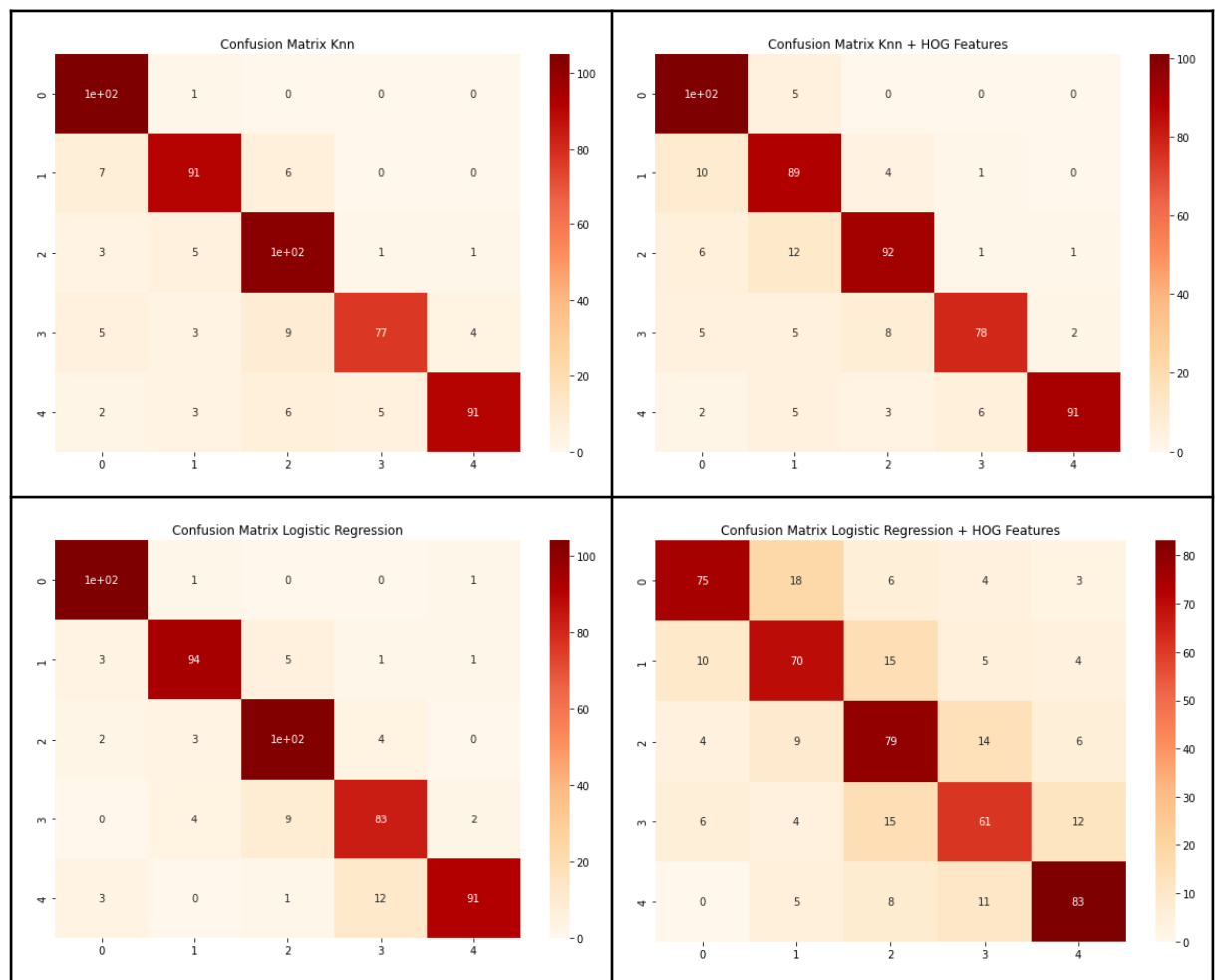


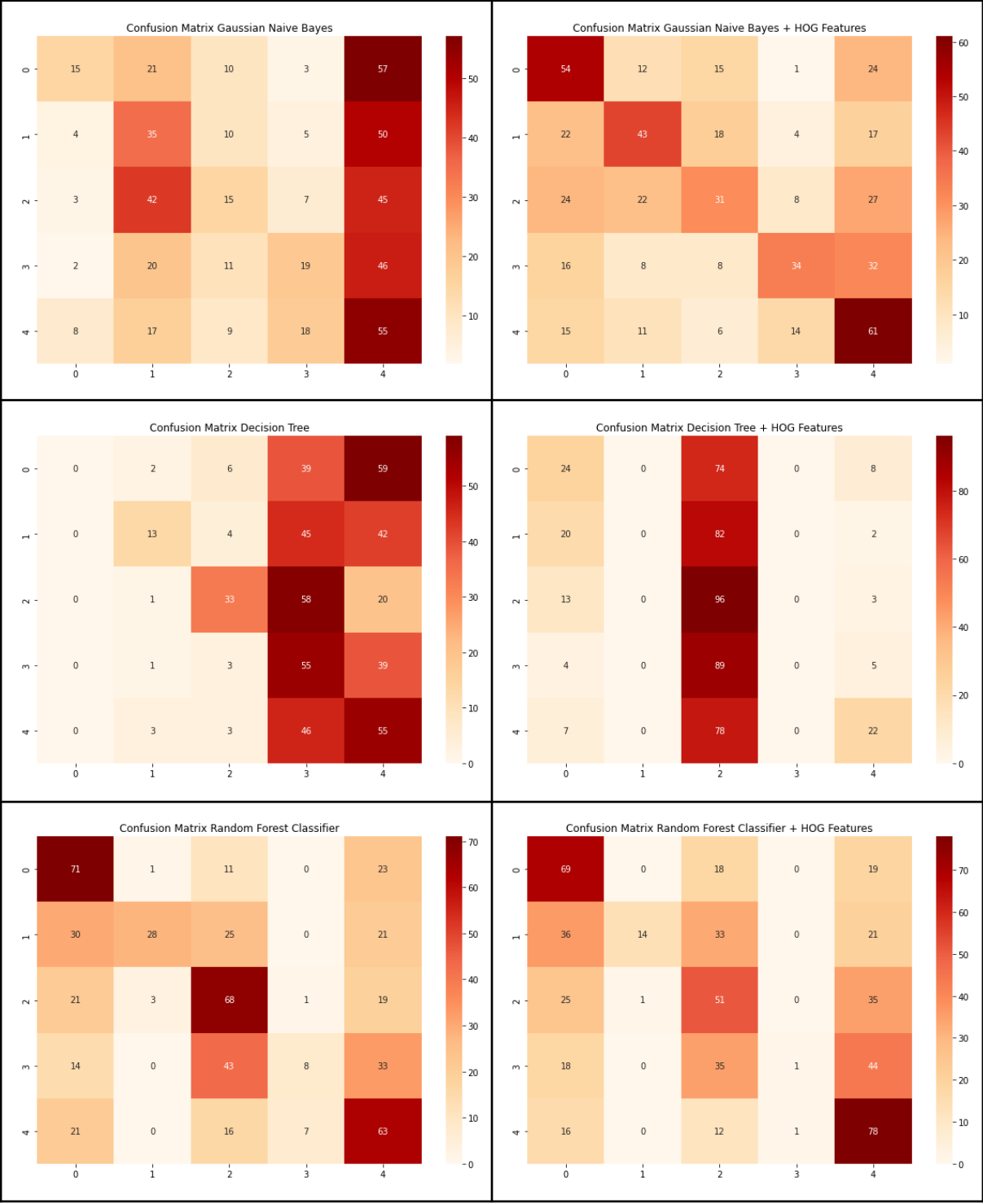


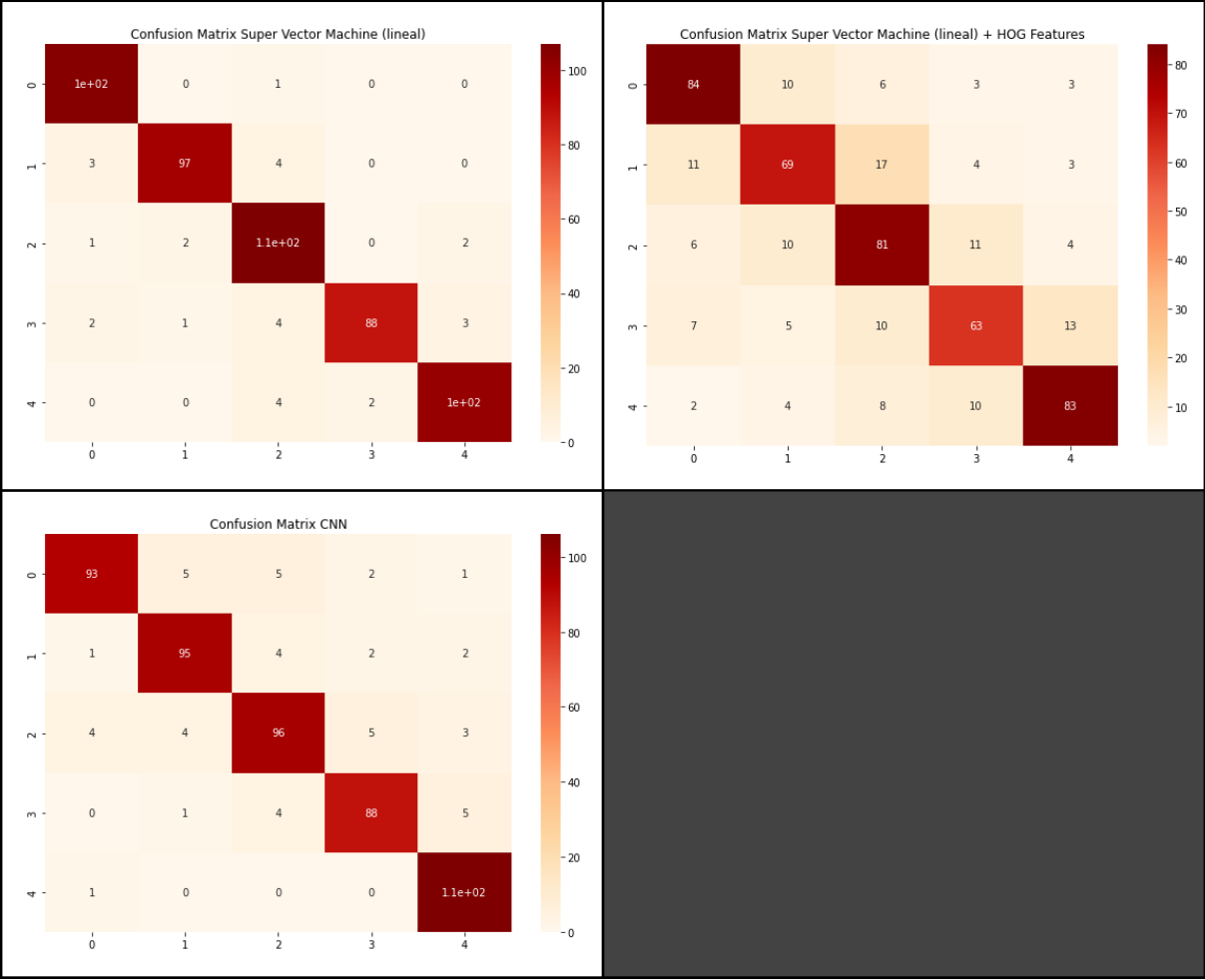
Imatges Otsu

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	

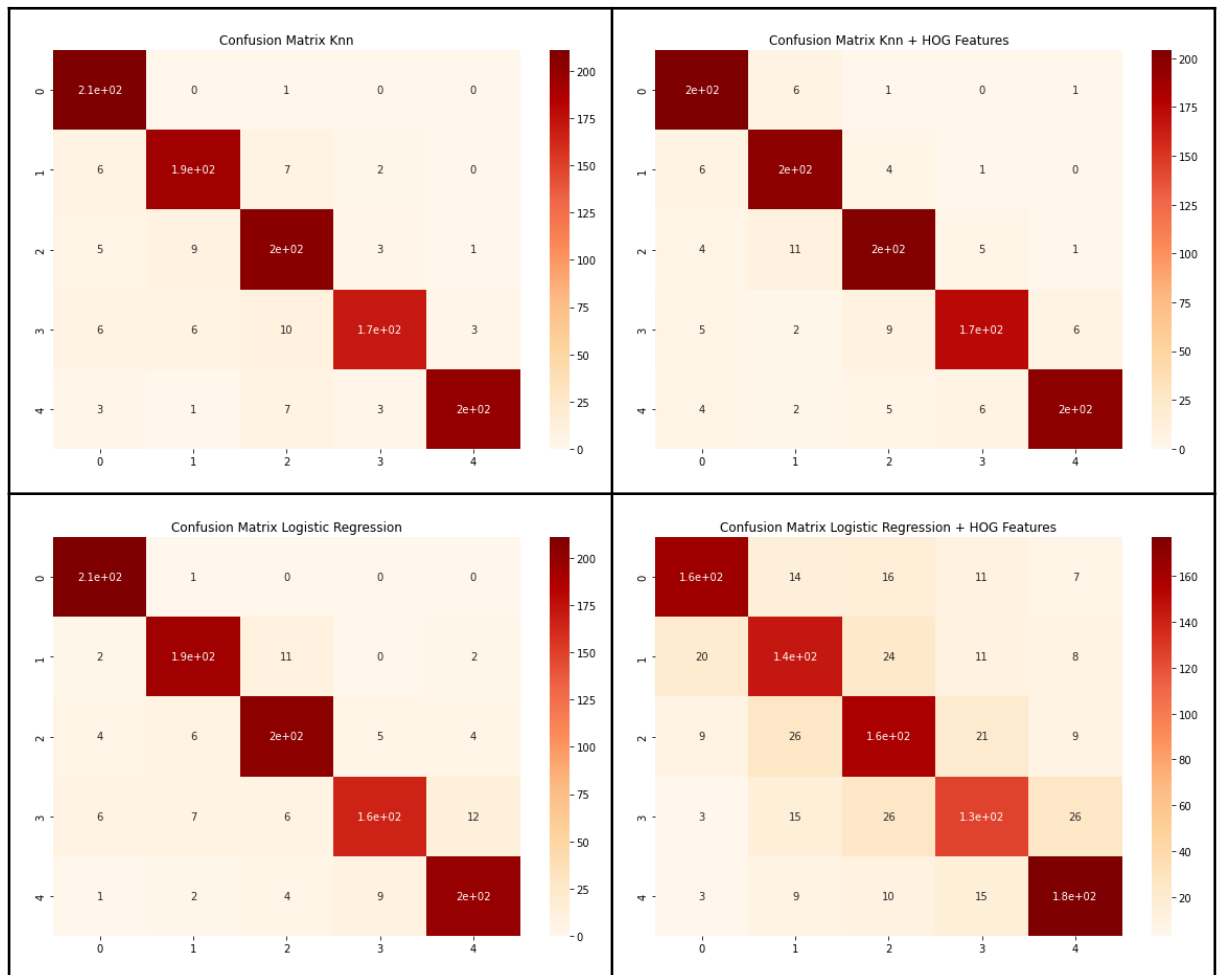


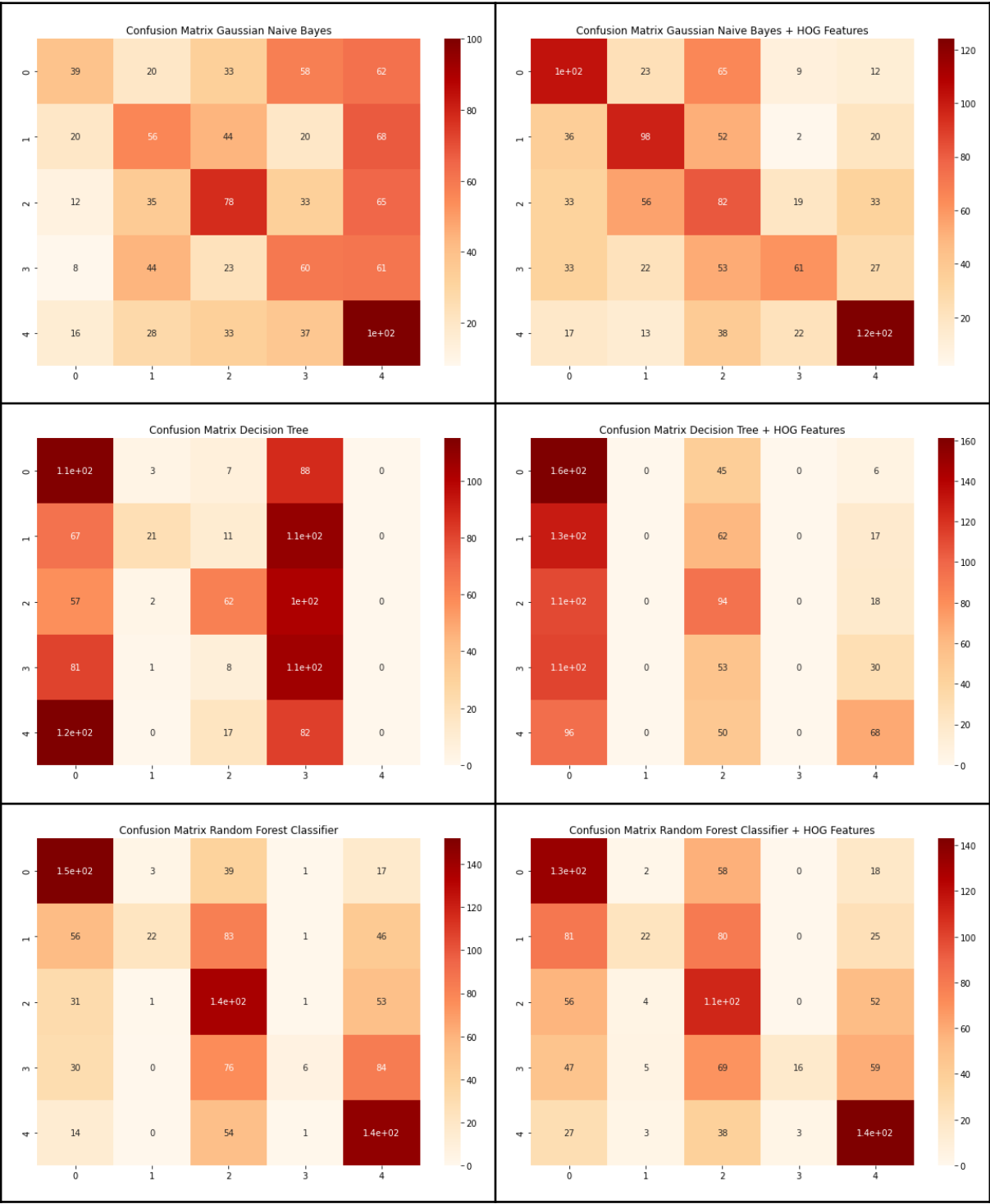


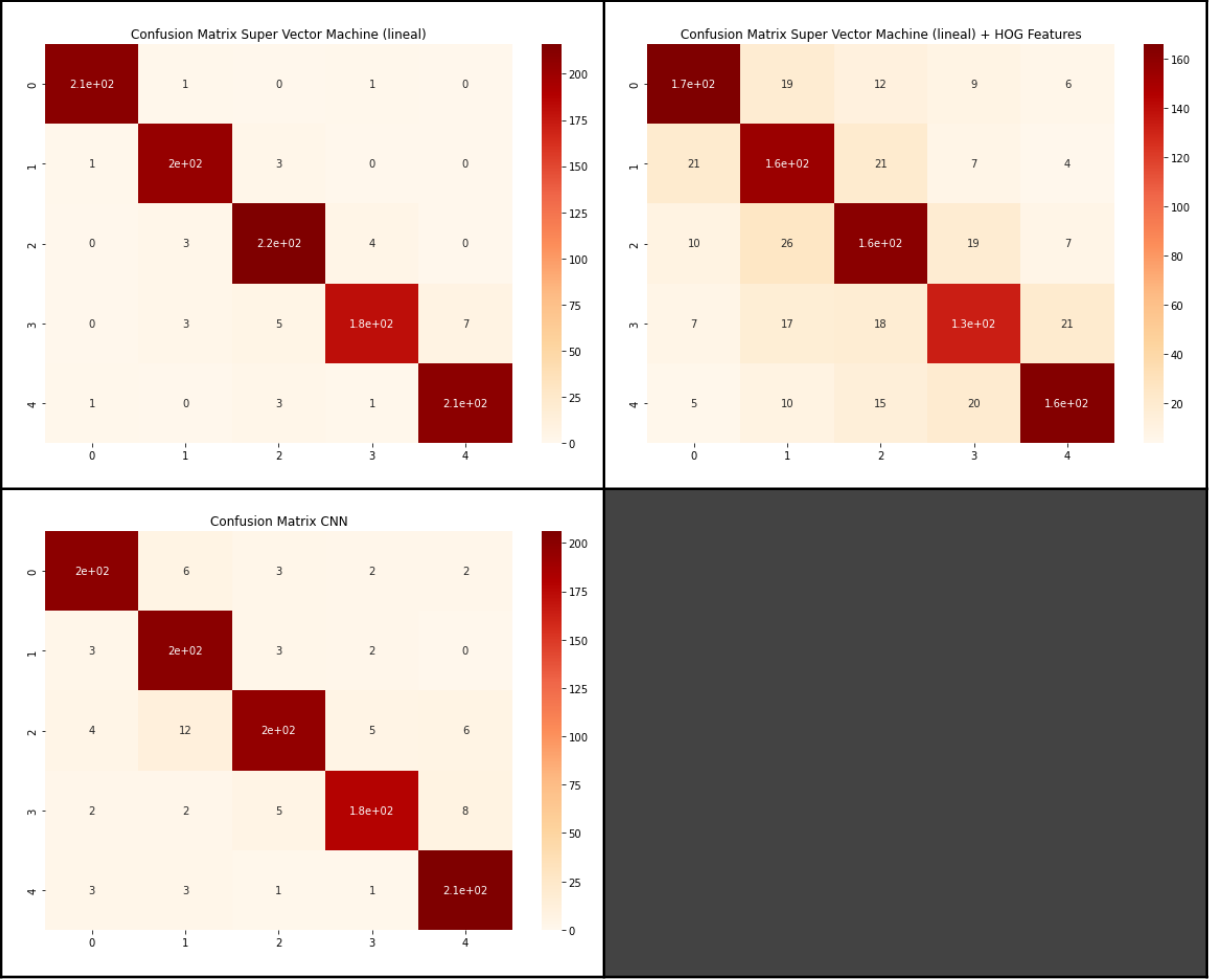


½ Dataset

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	







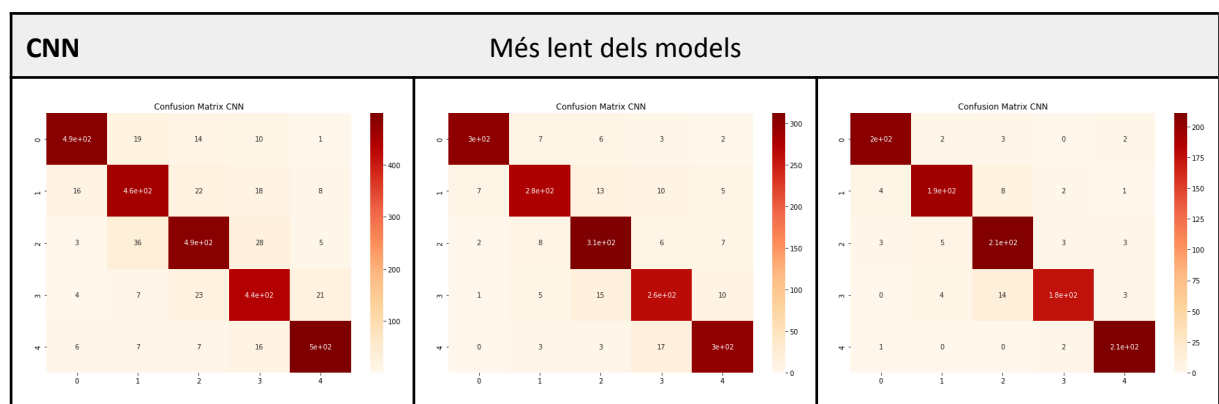
Validació millors resultats

Canvis de percentatges

½	Precision		Recall		F1- Score		Temps train		Temps test	
	Sense	HOG	Sense	HOG	Sense	HOG	Sense	HOG	Sense	HOG
50/50	0.89	0.88	0.89	0.88	0.88	0.89	0.02	0.014	4.14	0.56
70/30	0.93	0.90	0.93	0.90	0.93	0.90	0.03	0.02	4.34	0.40
80/20	0.93	0.92	0.93	0.92	0.93	0.92	0.04	0.03	3.15	0.35

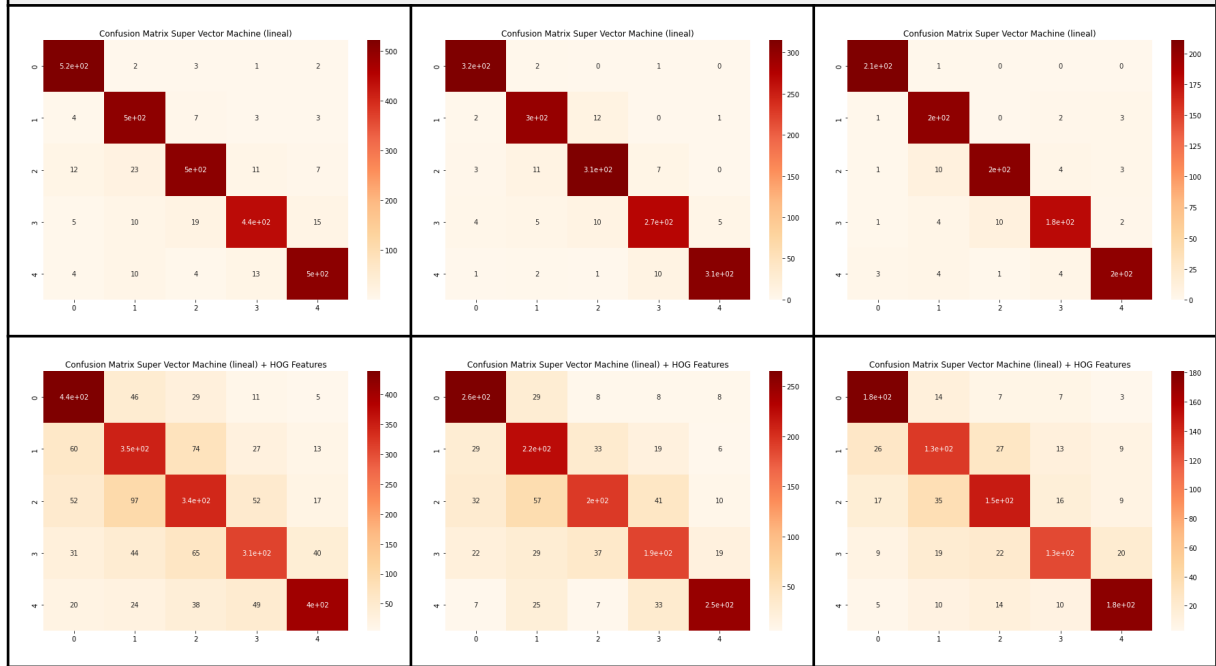
½	Precision		Recall		F1- Score		Temps train		Temps test	
	Sense	HOG	Sense	HOG	Sense	HOG	Sense	HOG	Sense	HOG
50/50	0.94	0.70	0.94	0.70	0.94	0.70	51.81	2.17	46.39	1.51
70/30	0.95	0.71	0.95	0.71	0.95	0.71	82.82	4.52	37.35	1.45
80/20	0.95	0.72	0.95	0.72	0.95	0.72	97.00	5.21	25.16	0.95

½	Precision	Recall	F1-Score	Temps train	Temps test
	Sense	Sense	Sense	Sense	Sense
50/50	0.90	0.90	0.90	1237.65	5.76
70/30	0.92	0.92	0.92	1739.62	4.13
80/20	0.94	0.94	0.94	2031.17	2.75



SVM

Millors resultats, bastant lents



KNN

Bons resultats, més ràpids

