## Sliding Window Technique - Image (x, y, z) x - Number of frame, y - Frame size z - Step size for the window sliding

<b>S. No</b>	Image	Feature Extraction	Model	Accuracy	Wt. Precision	Wt. F1 score	Wt. Recall score
1	Basic Image (13*14)	No feature extraction	Random Forest	83.97	84.18	82.27	83.97
_			Logistic Regression	80.07	79.02	79.21	80.07
			Ridge Classfier	80.1	78.88	78.81	80.1
	Sample Index					•	
	0	Gabour Filters	Random Forest	73.59	73.17	71.54	75.81
	2 -		Logistic Regression	74.46	70.71	68.58	74.46
	a - Frank During		Ridge Classfier	77.16	75.11	74.64	77.16
	200 and 200 an	LBP	Dandam Farrat	04.12	04.45	02.44	84.13
	2 0	LDP	Random Forest Logistic Regression	84.13 79.94	84.45 78.97	82.41 79.21	79.94
	10		Ridge Classfier	81.84	81	81.11	81.84
	17 -		Mage classifer	01.04	01	01.11	01.04
	0 5 10	Harlick method	Random Forest	78.84	77.31	76.9	78.84
	Number of frames		Logistic Regression	75.68	73.05	70.9	75.68
			Ridge Classfier	79.04	77.73	76.51	79.04
		CETA months of	Dandam Farrat	72.00	60.40	60.72	72.00
		SFTA method	Random Forest	72.88 74.1	68.48 69.87	68.72 67.08	72.88 74.1
			Logistic Regression Ridge Classfier	73.89	69.41	65.52	73.89
			Muge Classilei	73.89	03.41	03.32	73.83
2	Image_5 (31 * 31)	No feature extraction	Random Forest	84.2	84.07	82.78	84.2
	Window Estimation (31, 31, 5)		Logistic Regression	79.41	78.18	78.35	79.41
			Ridge Classfier	79.55	78.2	78.06	79.55
	A STATE OF THE PARTY OF THE PAR	Gabour Filters	Random Forest	75.84	73.2	72.68	75.84
	The second secon	Gabout Fillers	Logistic Regression	75.84 74.62	73.2 71.03	69.53	75.84 74.62
	<b>2000年 日本日本日本日本</b>		Ridge Classfier	76.98	74.87	74.52	76.98
	THE RESERVE OF THE PARTY OF THE		<b>3</b>		_	-	
	25	LBP	Random Forest	84.43	84.45	82.41	84.13
	The second secon		Logistic Regression	79.94	78.97	79.21	79.94
	WITTER-MANAGEMENT 5-4		Ridge Classfier	81.84	81	81.11	81.84
	- MANAGEMENT - 1	Harlick method	Random Forest	79.12	77.31	76.9	78.84
	POST SERVICE CONTRACTOR	nariick method	Logistic Regression	75.68	73.05	70.9	75.68
	0 5 10 15 20 25 10		Ridge Classfier	79.04	77.73	76.51	79.04
			mage classife.	75.01	77.75	70.01	75.0
		SFTA method	Random Forest	72.88	68.48	68.72	72.88
			Logistic Regression	74.1	69.87	67.08	74.1
			Ridge Classfier	73.89	69.41	65.52	73.89
3				04.04			
	Image 1 (93 * 93)	No feature extraction	Random Forest		83 92	82 57	84 N4
	Image_1 (93 * 93) Window Estimation (93, 93, 1)	No feature extraction	Random Forest Logistic Regression	84.04 80.07	83.92 78.94	82.57 79.06	84.04 80.07
-	Image_1 (93 * 93) Window Estimation (93, 93, 1)	No feature extraction	Logistic Regression	80.07	78.94	79.06	80.07
_	<b>v</b> = · · · ·	No feature extraction					
-	Window Estimation (93, 93, 1)	No feature extraction  Gabour Filters	Logistic Regression	80.07	78.94	79.06	80.07
-	<b>v</b> = · · · ·		Logistic Regression Ridge Classfier  Random Forest Logistic Regression	80.07 80.14 73.42 72.16	78.94 78.92 72.85 72.14	79.06 78.78 71.45 70.23	80.07 80.14 75.77 74.84
-	Window Estimation (93, 93, 1)		Logistic Regression Ridge Classfier Random Forest	80.07 80.14 73.42	78.94 78.92 72.85	79.06 78.78 71.45	80.07 80.14 75.77
-	Window Estimation (93, 93, 1)	Gabour Filters	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39	78.94 78.92 72.85 72.14 74.53	79.06 78.78 71.45 70.23 73.15	80.07 80.14 75.77 74.84 75.72
-	Window Estimation (93, 93, 1)		Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier  Random Forest	73.42 72.16 75.39	78.94 78.92 72.85 72.14 74.53	79.06 78.78 71.45 70.23 73.15	80.07 80.14 75.77 74.84 75.72
-	Window Estimation (93, 93, 1)	Gabour Filters	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier  Random Forest Logistic Regression	73.42 72.16 75.39 83.52 81.17	78.94 78.92 72.85 72.14 74.53 83.38 80.53	79.06 78.78 71.45 70.23 73.15 81.75 80.75	80.07 80.14 75.77 74.84 75.72 83.44 81.17
- <del>-</del>	Window Estimation (93, 93, 1)	Gabour Filters	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier  Random Forest	73.42 72.16 75.39	78.94 78.92 72.85 72.14 74.53	79.06 78.78 71.45 70.23 73.15	80.07 80.14 75.77 74.84 75.72
- -	Window Estimation (93, 93, 1)	Gabour Filters	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier  Random Forest Logistic Regression	73.42 72.16 75.39 83.52 81.17	78.94 78.92 72.85 72.14 74.53 83.38 80.53	79.06 78.78 71.45 70.23 73.15 81.75 80.75	80.07 80.14 75.77 74.84 75.72 83.44 81.17
-	Window Estimation (93, 93, 1)	Gabour Filters  LBP	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51
	Window Estimation (93, 93, 1)	Gabour Filters  LBP	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier  Random Forest	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51
-	Window Estimation (93, 93, 1)	Gabour Filters  LBP	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51
	Window Estimation (93, 93, 1)	Gabour Filters  LBP  Harlick method	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51 80.24 76.04 80.21	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97 79.11 73.48 79	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18 78.93 72.81 78.82	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51 80.3 76.04 80.21
4	Window Estimation (93, 93, 1)	Gabour Filters  LBP	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51 80.24 76.04 80.21	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97 79.11 73.48 79	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18 78.93 72.81 78.82	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51 80.3 76.04 80.21
	Image (33 * 30) Energy Window Estimation	Gabour Filters  LBP  Harlick method	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51 80.24 76.04 80.21	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97 79.11 73.48 79	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18 78.93 72.81 78.82	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51 80.3 76.04 80.21
	Window Estimation (93, 93, 1)	Gabour Filters  LBP  Harlick method	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51 80.24 76.04 80.21	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97 79.11 73.48 79	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18 78.93 72.81 78.82	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51 80.3 76.04 80.21
	Image (33 * 30) Energy Window Estimation	Gabour Filters  LBP  Harlick method	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51 80.24 76.04 80.21 76.16 75.03 75.08	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97 79.11 73.48 79	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18 78.93 72.81 78.82	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51 80.3 76.04 80.21 76.16 75.03 75.08
	Image (33 * 30) Energy Window Estimation	Gabour Filters  LBP  Harlick method  No feature extraction	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51 80.24 76.04 80.21 76.16 75.03 75.08	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97 79.11 73.48 79 74.89 71.98 72.24 69.6 68.64	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18 78.93 72.81 78.82 70.34 69.35 69.04	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51 80.3 76.04 80.21 76.16 75.03 75.08
	Image (33 * 30) Energy Window Estimation Sample Index	Gabour Filters  LBP  Harlick method  No feature extraction	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51 80.24 76.04 80.21 76.16 75.03 75.08	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97 79.11 73.48 79 74.89 71.98 72.24	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18 78.93 72.81 78.82 70.34 69.35 69.04	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51 80.3 76.04 80.21 76.16 75.03 75.08
	Image (33 * 30) Energy Window Estimation Sample Index	Gabour Filters  LBP  Harlick method  No feature extraction  Gabour Filters	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51 80.24 76.04 80.21 76.16 75.03 75.08	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97 79.11 73.48 79 74.89 71.98 72.24 69.6 68.64 71.77	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18 78.93 72.81 78.82 70.34 69.35 69.04 68.6 67.34 70.36	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51 80.3 76.04 80.21 76.16 75.03 75.08
	Image (33 * 30) Energy Window Estimation  Sample Index	Gabour Filters  LBP  Harlick method  No feature extraction	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51 80.24 76.04 80.21 76.16 75.03 75.08	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97 79.11 73.48 79 74.89 71.98 72.24 69.6 68.64 71.77 76.01	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18 78.93 72.81 78.82 70.34 69.35 69.04 68.6 67.34 70.36	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51 80.3 76.04 80.21 76.16 75.03 75.08
	Image (33 * 30) Energy Window Estimation Sample Index	Gabour Filters  LBP  Harlick method  No feature extraction  Gabour Filters	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51 80.24 76.04 80.21 76.16 75.03 75.08	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97 79.11 73.48 79 74.89 71.98 72.24 69.6 68.64 71.77	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18 78.93 72.81 78.82 70.34 69.35 69.04 68.6 67.34 70.36	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51 80.3 76.04 80.21 76.16 75.03 75.08 73.89 73.57 75.01
	Image (33 * 30) Energy Window Estimation  Sample Index  10 11 12 20 25	Gabour Filters  LBP  Harlick method  No feature extraction  Gabour Filters	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51 80.24 76.04 80.21 76.16 75.03 75.08	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97 79.11 73.48 79 74.89 71.98 72.24 69.6 68.64 71.77 76.01	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18 78.93 72.81 78.82 70.34 69.35 69.04 68.6 67.34 70.36	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51 80.3 76.04 80.21 76.16 75.03 75.08
	Image (33 * 30) Energy Window Estimation  Sample Index  10 15 20 25 30	Gabour Filters  LBP  Harlick method  No feature extraction  Gabour Filters	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51 80.24 76.04 80.21 76.16 75.03 75.08	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97 79.11 73.48 79 74.89 71.98 72.24 69.6 68.64 71.77	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18 78.93 72.81 78.82 70.34 69.35 69.04 68.6 67.34 70.36	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51 80.3 76.04 80.21 76.16 75.03 75.08 73.89 73.57 75.01
	Image (33 * 30) Energy Window Estimation  Sample Index  10 11 12 20 25	Gabour Filters  LBP  Harlick method  No feature extraction  Gabour Filters  LBP	Logistic Regression Ridge Classfier  Random Forest Logistic Regression Ridge Classfier	80.07 80.14 73.42 72.16 75.39 83.52 81.17 80.51 80.24 76.04 80.21 76.16 75.03 75.08 73.89 73.57 75.01	78.94 78.92 72.85 72.14 74.53 83.38 80.53 79.97 79.11 73.48 79 74.89 71.98 72.24 69.6 68.64 71.77 76.01 72.24 74	79.06 78.78 71.45 70.23 73.15 81.75 80.75 80.18 78.93 72.81 78.82 70.34 69.35 69.04 68.6 67.34 70.36 68.53 71.76 72.65	80.07 80.14 75.77 74.84 75.72 83.44 81.17 80.51 80.3 76.04 80.21 76.16 75.03 75.08

5	Image_2 (62, 62, 2)	LBP	Random Forest	83.92	83.65	82.44	83.88
		Harlick	Random Forest	80.64	79.25	78.99	80.42
6	Image_3 (48, 46, 3)	LBP	Random Forest	84.34	84.08	82.68	84.15
		Harlick	Random Forest	80.27	78.95	78.25	80.12
7	Image_4 (38, 37, 4)	LBP	Random Forest	84.28	84.07	82.42	84.01
7	Image_4 (38, 37, 4)	LBP Harlick	Random Forest	84.28 79.46	84.07 77.66	82.42 77.19	84.01 79.11
7 8	Image_4 (38, 37, 4) Image_6 (26, 26, 6)						











