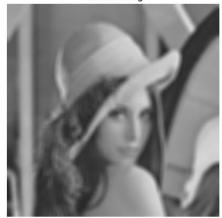
TASK-1

Original Image



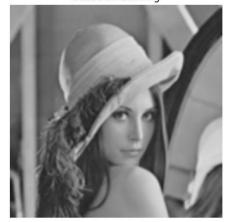
**Box Blurring** 



Original Image



Gaussian Blurring



Original Image



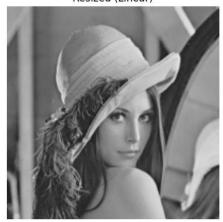
Adaptive Blurring



Original Image



Resized (Linear)



Original Image



Resized (Nearest)



Original Image



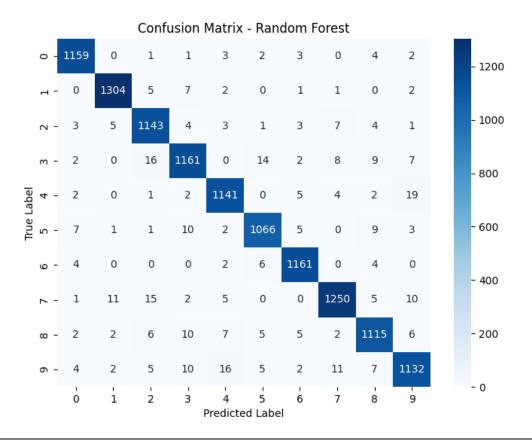
Resized (Cubic)



TASK-2

Confusion Matrix - Naïve Bayes													
	0 -	1027	1	9	0	0	2	40	1	72	23		- 1200
	1	- 2	1236	7	7	0	3	12	1	41	13		- 1000
	7 -	- 74	31	371	84	5	8	285	0	303	13		1000
	m -	- 57	64	15	452	2	5	51	10	442	121		- 800
True Label	4 -	- 27	6	13	6	228	5	93	1	242	555		
True	2 -	122	26	6	22	6	58	45	3	697	119		- 600
	9 -	. 9	17	8	1	1	3	1111	0	26	1		- 400
	7	. 9	10	3	13	14	2	0	345	48	855		
	ω -	- 18	135	6	6	3	10	18	1	732	231		- 200
	ი -	. 7	3	4	0	6	1	0	8	19	1146		
		Ó	'n	2	3	4	5	6	7	8	9		- 0

Predicted Label



Random Forest Model Results:

Accuracy: 0.9693

Classification Report:									
р	recision	recall	f1-score	support					
9	0.98	0.99	0.98	1175					
1	0.98	0.99	0.99	1322					
2	0.96	0.97	0.97	1174					
3	0.96	0.95	0.96	1219					
4	0.97	0.97	0.97	1176					
5	0.97	0.97	0.97	1104					
6	0.98	0.99	0.98	1177					
7	0.97	0.96	0.97	1299					
8	0.96	0.96	0.96	1160					
9	0.96	0.95	0.95	1194					
accuracy			0.97	12000					
macro avg	0.97	0.97	0.97	12000					
weighted avg	0.97	0.97	0.97	12000					