	######################################	a				######################################	######################################						
		precision	recall	f1-score	support	•	precision	recall	f1-score	support			
	0.0	0.95	0.98	0.96	8122		0.76	0.00	0.00	443			
	1.0	0.99	0.95	0.97		0.0 1.0	0.76 0.64	0.92 0.33	0.83 0.43	113 49			
	accuracy			0.97	16830				0.74	163			
	macro avg	0.97	0.97	0.97		accuracy macro avg	0.70	0.62	0.74	162 162			
	weighted avg	0.97	0.97	0.97	16830	weighted avg	0.72	0.74	0.71	162			
	Test Data					Test Data							
		precision	recall	f1-score	support	lest bata	precision	recall	f1-score	support			
		0.03	0.06	0.05	1060								
	0.0 1.0	0.93 0.96	0.96 0.93	0.95 0.95		0.0 1.0	0.82 0.62	0.92 0.42	0.87 0.50	36 12			
						1.0	0.02	0.42	0.50	12			
	accuracy			0.95		accuracy			0.79	48			
	macro avg weighted avg	0.95 0.95	0.95 0.95	0.95 0.95		macro avg	0.72	0.67	0.68	48			
	mergineed avg	0.55	0.00	0.00		weighted avg	0.78	0.79	0.78	48			
	Validation Da					Validation Da	ta						
		precision	recall	f1-score	support		precision	recall	f1-score	support			
	0.0	0.94	0.97	0.96	1405	0.0	0.83	0.91	0.87	22			
		0.06	0.06	0.00	2070								
	macro avg weighted avg	0.96 0.96	0.96 0.96	0.96 0.96		macro avg weighted avg	0.72 0.78	0.67 0.79	0.68 0.78	29 29			
						weighted dvg	0.70	0.75	0.70	23			
Decision Tre	e ###########	## ######	"""""""""	"""""	* ******* *****************************								
	##############	## Test on 0	versampled	Data ####	******	############		n SMOTE Da	ta #######	#########			
	Training Data	precision	recall f	1-score	support	Training Data	precision	recall	f1-score	support			
		0.70	0.60	0.74	4176	0.0	0.85	0.73	0.78	4214			
	0.0 1.0	0.79 0.64	0.69 0.75	0.74 0.69	3049	1.0	0.68	0.82	0.74	3011			
						accuracy			0.77	7225			
	accuracy macro avg	0.71	0.72	0.71 0.71	7225 7225	macro avg	0.77	0.77	0.76	7225			
	weighted avg	0.73	0.71	0.72	7225	weighted avg	0.78	0.77	0.77	7225			
	Test Data					Test Data							
	rest bata	precision	recall f	1-score	support		precision	recall	f1-score	support			
						0.0	0.85	0.71	0.77	898			
	0.0 1.0	0.79 0.65	0.69 0.76	0.74 0.70	855 645	1.0	0.65	0.81	0.72	602			
									. 75	4500			
	accuracy macro avg	0.72	0.73	0.72 0.72	1500 1500	accuracy macro avg	0.75	0.76	0.75 0.74	1500 1500			
	weighted avg	0.73	0.72	0.72	1500	weighted avg	0.77	0.75	0.75	1500			
	Validation Dat					Validation Da	nta						
	vacidacion bar	precision	recall f	1-score	support		precision	recall	f1-score	support			
					700	0.0	0.85	0.68	0.76	770			
	0.0	0.78	0.66	0.72	729		0.03	0.00	0.70	770			
	macro avg	0.70	0.71	0.70	1275	macro avg	0.74	0.75	0.73	1275			
	weighted avg	0.71	0.70	0.70	1275	weighted avg	0.76	0.74	0.74	1275			
	##############	<i>!# ########</i>	**********	**** *****	############	·## ########	""""""""""	#### ####	"""""""""				
	##############	### Test on	ADASYN Dat	a #######	<i>!######</i>								
	Training Data		11 4										
		precision	recall f	1-score	support								
	0.0	0.67	0.59	0.63	4124								
	1.0	0.53	0.62	0.57	3102								
	accuracy			0.60	7226								
	macro avg weighted avg	0.60 0.61	0.61 0.60	0.60 0.61	7226 7226								
	weighted avg	0.01	0.00	0.01	7220								
	Test Data												
	Test Data	precision	recall f	1-score	support								
	0.0	0.69	0.60	0.64	857								
	0.0 1.0 accuracy	0.69 0.54	0.60 0.64	0.64 0.59 0.62	857 644 1501								
	0.0 1.0 accuracy macro avg	0.69 0.54	0.60 0.64 0.62	0.64 0.59 0.62 0.61	857 644 1501 1501								
	0.0 1.0 accuracy	0.69 0.54	0.60 0.64	0.64 0.59 0.62	857 644 1501								
	0.0 1.0 accuracy macro avg	0.69 0.54 0.62 0.63	0.60 0.64 0.62 0.62	0.64 0.59 0.62 0.61 0.62	857 644 1501 1501 1501								
	0.0 1.0 accuracy macro avg weighted avg	0.69 0.54 0.62 0.63	0.60 0.64 0.62	0.64 0.59 0.62 0.61 0.62	857 644 1501 1501								
	0.0 1.0 accuracy macro avg weighted avg	0.69 0.54 0.62 0.63	0.60 0.64 0.62 0.62	0.64 0.59 0.62 0.61 0.62	857 644 1501 1501 1501								
	0.0 1.0 accuracy macro avg weighted avg Validation Dat	0.69 0.54 0.62 0.63 ta precision	0.60 0.64 0.62 0.62 recall f	0.64 0.59 0.62 0.61 0.62	857 644 1501 1501 1501 support								
	0.0 1.0 accuracy macro avg weighted avg Validation Dat	0.69 0.54 0.62 0.63	0.60 0.64 0.62 0.62	0.64 0.59 0.62 0.61 0.62	857 644 1501 1501 1501 support								

Random Forest

Generative Data]	Normal Data							
################## Test on Generative Data ##################################									######################################							
	precisi	ion r	ecall	f1-score	support					precisi	on reca	ll f1-	-score	support		
0.	.0 0.	.99	1.00	0.99	8385					0.0 0.	82 0.	92	0.86	122		
1.	.0 1.	.00	0.99	0.99	8445					1.0 0.	60 0.	38	0.46	40		
accurac	v			0.99	16830				accur	acv			0.78	162		
macro av	-	.99	0.99	0.99	16830				macro	-	71 0.	65	0.66	162		
weighted av	-	.99	0.99	0.99	16830			١	veighted		76 0.		0.77	162		
Test Data									est Data							
rest bata	precisi	ion r	ecall	f1-score	support			,	est bata	precisi	on reca	ll f1-	-score	support		
0.	.0 0.	.95	0.98	0.96	1066					0.0 0.	88 0.	90	0.89	39		
1.	.0 0.	.98	0.95	0.96	1134						50 0.		0.47	9		
				0.96	2200											
accurac	,								accur	,			0.81	48		
macro av	5	.96	0.96	0.96	2200				macro				0.68	48		
weighted av	/g 0.	.96	0.96	0.96	2200			١	veighted	avg 0.	80 0.	81	0.81	48		
Validation	Data							١	/alidatio	n Data						
	precisi	ion r	ecall	f1-score	support					precisi	on reca	ll f1-	-score	support		
0.	.0 0.	.96	0.97	0.97	1422					0.0 0.	83 0.	87	0.85	23		
macro av	/a 0.	.97	0.97	0.97	2970				macro	ava 0	62 0.	50	0.61	29		
weighted av	-	.97	0.97	0.97	2970			,	veighted		74 0.		0.75	29		
###########	***** ****	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		***** ****						##### #####						
						T D	,	,					*** ******	******		
Oversa	-				SMOT					ADAS	YND	ata				
######################################				#) ###################################		sMOTE Da	ita ######	######################################								
	precision		f1-scor			precision	recall	f1-score	support		precision	recall	f1-score	support		
0.0 1.0	0.83 0.56	0.65 0.77	0.7 0.6		0.0	0.88 0.59	0.69 0.84	0.77 0.69	4679 2546	0.0 1.0	0.74 0.45	0.58 0.64	0.65 0.53	4660 2566		
accuracy			0.7	70 7225		****				1.0	0.45	0.04	0.53	2500		
macro avg	0.70	0.71	0.6		accuracy macro avg	0.74	0.76	0.74 0.73	7225 7225	accuracy			0.60	7226		
weighted avg	0.73	0.70	0.7		weighted avg	0.78	0.74	0.74	7225	macro avg weighted avg	0.60 0.64	0.61 0.60	0.59 0.61	7226 7226		
Test Data					Test Data					Test Data						
	precision	recall	f1-scor	re support		precision	recall	f1-score	support	iest Data	precision	recall	f1-score	support		
0.0	0.83	0.66	0.7	74 939	0.0	0.88	0.67	0.76	988							
1.0	0.58	0.78	0.6		1.0	0.56	0.83	0.70	512	0.0 1.0	0.74 0.45	0.57 0.63	0.65 0.53	967 534		
								0.70	4500		*****					
accuracy macro avg	0.71	0.72	0.7 0.7		accuracy macro avg	0.72	0.75	0.72 0.72	1500 1500	accuracy			0.60	1501		
weighted avg	0.74	0.71	0.7		weighted avg	0.77	0.72	0.72	1500	macro avg weighted avg	0.60 0.64	0.60 0.60	0.59 0.60	1501 1501		
Validation Da					Validation Da							0.00	0.00	1501		
validation Da	precision	recall	f1-scor	re support	validation Da	precision	recall	f1-score	support	Validation Da			41			
	,										precision	recall	f1-score	support		
0.0	0.83	0.64	0.7	72 800	0.0	0.90	0.67	0.77	827	0.0	0.78	0.59	0.67	826		
macro avg	0.69	0.71	0.6	59 1275	macro avg	0.74	0.77	0.73	1275	macro avg	0.63	0.64	0.62	1276		
weighted avg	0.73	0.69	0.7	70 1275	weighted avg	0.79	0.74	0.75	1275	weighted avg	0.67	0.63	0.63	1276		