		•		-	F	Result	s of p	erforn	nance	metri	cs,accur	acy, recall, prec	ision,	and F	1 scor	es							•
Epoch = 10/SGD /window = 3				Epoch = 10/SGD /window = 5				Epoch = 10/SGD /window = 7			Epoch = 10/A	Epoch = 10/Adam /window = 3			Epoch = 10/Adam /window = 5			Epoch	Epoch = 10/Adam /window = 7				
	Precision	recall	F1-score		Precision	recall	F1-score		Precision	recall	F1-score		Precision	recall	F1-score		Precision	recall	F1-score		Precision	recall	F1-score
	0.5900	0.5800	0.5800	1	0.5800	0.5900	0.5900	1	0.5800	0.5700	0.5700		0.8500	0.8400	0.8400		0.8400	0.8200	0.8300		0.8300	0.8500	0.8400
	0.5900	0.6200	0.6000	ļ., .,	0.5900	0.5900	0.6000	ļ., .,	0.5800	0.5700	0.5700		0.8300	0.8500	0.8400		0.8600	0.8000	0.8300		0.8100	0.8600	0.8400
Negative	0.6000	0.6500	0.6200	Negative	0.5900	0.5600	0.5700	Negative	0.5900	0.5900	0.5900	Negative	0.8500	0.8100	0.8300	Negative	0.8200	0.8700	0.8400	Negative	0.8300	0.8600	0.8400
	0.5900	0.5700	0.5800	-	0.6000	0.5800	0.5900	-	0.5700	0.6300	0.6000		0.8400	0.8200	0.8300		0.8100	0.8700	0.8400		0.8200	0.8500	0.8400
Negative Avg	0.5800 59.00%	0.6000 60.40%	0.5900 59.40%	Avg	0.5900 59.25%	0.5400 57.20%	0.5700 58.40%	Avg	0.5800 58.00%	0.6200 59.60%	0.6000 58.60%	Negative Avg	0.8400 84.20%	0.8300	0.8300 83.40%	Avg	0.8200 83.00%	0.8200 83.60%	0.8300 83.40%	Avg	0.8300 82.40%	0.8600 85.60%	0.8500 84.20%
Negative Avg	0.5900	0.6000	0.5900	Avg	0.5900	0.5900	0.5900	Avg	0.5800	0.5900	0.5900	Negative Avg	0.8400	0.8500	0.8400	Avg	0.8300	0.8400	0.8400	Avg	0.8400	0.8200	0.8300
	0.6000	0.5800	0.5900	1	0.5900	0.5800	0.5800	1	0.5800	0.5900	0.5800		0.8500	0.8200	0.8400		0.8100	0.8700	0.8400		0.8500	0.8000	0.8300
Positive	0.6200	0.5600	0.5900	Positive	0.5800	0.6000	0.5900	Positive	0.5900	0.5900	0.5900	Positive	0.8200	0.8600	0.8400	Positive	0.8600	0.8100	0.8300	Positive	0.8500	0.8300	0.8400
	0.5900	0.6100	0.6000	1	0.5900	0.6100	0.6000	1	0.5800	0.5200	0.5500		0.8300	0.8500	0.8400	1	0.8600	0.8000	0.8300	1	0.8500	0.8200	0.8400
	0.5900	0.5700	0.5800		0.5700	0.6200	0.6000		0.5900	0.5500	0.5700		0.8400	0.8400	0.8400		0.8400	0.8100	0.8300		0.8600	0.8300	0.8400
Positive Avg	59.80%	58.40%	59.00%	Avg	58.40%	60.00%	59.20%	Avg	58.40%	56.80%	57.60%	Positive Avg	83.60%	84.40%	84.00%	Avg	84.00%	82.60%	83.40%		85.00%	82.00%	83.60%
	0.5900	0.5900	0.5900	Macro Av		0.5900	0.5900	Macro Avg		0.5800	0.5800		0.8400	0.8400	0.8400	Macro Avg	0.8300	0.8300		Macro Avo	0.8400	0.8400	0.8400
	0.6000	0.6000	0.6000		0.5900	0.5900	0.5900		0.5800	0.5800	0.5800		0.8400	0.8400	0.8400		0.8400	0.8300	0.8300		0.8300	0.8300	0.8300
Macro Avg	0.6100	0.6100	0.6100		0.5800	0.5800	0.5800		0.5900	0.5900	0.5900	Macro Avg	0.8400	0.8400	0.8400		0.8400	0.8400	0.8400		0.8400	0.8400	0.8400
	0.5900	0.5900	0.5900		0.6000	0.6000	0.6000		0.5800	0.5700	0.5700		0.8400	0.8400	0.8400		0.8400	0.8400	0.8400		0.8400	0.8400	0.8400
AVG Of Macro Avg	0.5900 59.60%	0.5900 59.60%	0.5900 59.60%	Macro Avo	0.5800 0.5800 0.5800 acro Avg 58.80% 58.80% 58.80% Macro Avg		0.5800 58.20%	0.5800 58.00%	0.5800 58.00%	AVG Of Macro Avg	0.8400 84.00%	0.8400 84.00%	0.8400 84.00%	Macro Avg	0.8300 83.60%	0.8300 83.40%	0.8300 83.40%		0.8500 84.00%	0.8500 84.00%	0.8500 84.00%		
AVG OT Macro Avg	39.00%	39.00%	39.00%	viacro Av	30.00%	30.00%	30.00%	Macro Avg	30.20%	30.00%	30.00%	AVG OT Macro Avg	04.00%	04.00%	04.00%	IVIACIO AVG	03.00%	03.40%	03.40m		04.UUn	04.00%	04.00%
	0.5900	0.5900	0.5900	eighted A	0.5900	0.5900	0.5900	eighted A	0.5800	0.5800	0.5800		0.8400	0.8400	0.8400	Veighted Av	0.8300	0.8300	0.8300	eighted A	0.8400	0.8400	0.8400
	0.6000	0.6000	0.6000	0.5900	0.5900	0.5900	oig/ittea/	0.5800	0.5800	0.5800	1	0.8400	0.8400	0.8400	reignieurin	0.8400	0.8300	0.8300	o.gcu.r.	0.8300	0.8300	0.8300	
Weighted Avg	0.6100	0.6100	0.6100		0.5800	0.5800	0.5800		0.5900	0.5900	0.5900	Weighted Avg	0.8400	0.8400	0.8400		0.8400	0.8400	0.8400		0.8400	0.8400	0.8400
	0.5900	0.5900	0.5900		0.6000	0.6000	0.6000		0.5800	0.5700	0.5700		0.8400	0.8400	0.8400		0.8400	0.8400	0.8400		0.8400	0.8400	0.8400
	0.5900	0.5900	0.5900		0.5800	0.5800	0.5800		0.5800	0.5800	0.5800		0.8400	0.8400	0.8400		0.8300	0.8300	0.8300		0.8500	0.8500	0.8500
AVG Of Weighted Avg	59.60%	59.60%	59.60%	eighted A	58.80%	58.80%	58.80%	eighted A	58.20%	58.00%	58.00%	AVG Of Weighted Avg	84.00%	84.00%	84.00%	Veighted Av	83.60%	83.40%	83.40%	eighted A	84.00%	84.00%	84.00%
Epoch = 8/SG	D /window	v = 3		Fno	ch = 8/SG[	) /windov	v = 5	Enc	nch = 8/S0	GD /windo	w = 7	Epoch = 8/Ac	lam /winde	nw = 3		Fnoch	= 8/Adan	- Avindov	, = 5	Fnoc	h = 8/Ada	m /windo	nw = 7
2,000,100	Precision	recall	F1-score		Precision	recall	F1-score	<del>-</del>	Precision	recall	F1-score	Epodit of to	Precision	recall	F1-score	прост.	Precision	recall	F1-score	Lpoo	Precision	recall	F1-score
	0.6000	0.5700	0.5800	Negative		0.5500	0.5600	Negative		0.6000	0.5900	Negative	0.8300	0.8300	0.8300	Negative	0.8100	0.8500	0.8300	Negative	0.8400	0.8000	0.8200
ı	0.5800	0.5700	0.5800	0.5900 0.5900 0.5800		0.5900	0.5900		0.5900	0.6100	0.6000		0.8200	0.8500	0.8300		0.8100	0.8800	0.8400		0.8300	0.8300	0.8300
Negative	0.5900	0.5900	0.5900		0.5900	0.6200	0.6100		0.5800	0.5400	0.5600		0.8400	0.8200	0.8300		0.8100	0.8400	0.8300		0.8400	0.8100	0.8200
l .	0.5800	0.5900	0.5900		0.5800	0.5800		0.5700	0.6000	0.5900		0.8400	0.8000	0.8200		0.8300	0.8200	0.8300		0.8100	0.8600	0.8400	
	0.5800	0.5900	0.5800		0.6000	0.5300	0.5600		0.5800	0.5400	0.5600		0.8300	0.8200	0.8200		0.8000	0.8700	0.8300		0.8200	0.8300	0.8300
Negative Avg	58.60%	58.20%	58.40%	Negative	58.60%	57.40%	58.00%	Negative	57.80%	57.80%	58.00%	Negative Avg	83.20%	82.40%	82.60%	Negative	81.20%	85.20%	83.20%	Negative	82.80%	82.60%	82.80%
	0.5000	0.0000	0.0000	5 111	0.5700	0.5000	0.5000	5 111	0.5000	0.5500	0.5000	B 10	0.0000	0.0000	0.0000	5 10	0.0400	0.0000	0.0000	5 111	0.0400	0.0400	0.0000
ı	0.5900	0.6200	0.6000	Positive		0.5900	0.5800	Positive	0.5800	0.5500	0.5600	Positive	0.8300	0.8300	0.8300	Positive	0.8400	0.8000	0.8200	Positive	0.8100	0.8400	0.8200
Positive	0.5800	0.6000	0.5900	+	0.5900 0.6100	0.5800	0.5900	+	0.6000	0.5800	0.5900 0.5900	-	0.8400	0.8100	0.8200		0.8700 0.8400	0.8900	0.8300	-	0.8300	0.8300	0.8300
1 Oaktive	0.5900	0.5900	0.5900	+	0.5800	0.5800	0.5800	1	0.5700	0.5600	0.5700		0.8200	0.8500	0.8300		0.8300	0.8300	0.8300		0.8500	0.8400	0.8300
ı	0.0000		0.3000	1	0.5000	0.5000	0.3000		0.5500	0.3000	0.5700							0.7800	0.8200		0.8300	0.8200	0.8300
1	0.5900	0.5900	0.5900			0.6400	0.6100		0.5700	0.6000	0.5900				0.8300		U.SOUL					0.0500	
Positive Ava	0.5900 58.80%	0.5900 59.40%	0.5900 59.00%	Positive	0.5800 58.60%	0.6400 59.40%	0.6100 59.00%	Positive	0.5700 58.20%	0.6000 58.00%	0.5900 58.00%	Positive Ava	0.8200	0.8300 83.20%	0.8300 82.80%	Positive	0.8500 84.60%	82.20%	82.40%	Positive	82.80%	82.60%	82.80%
Positive Avg				Positive	0.5800			Positive				Positive Avg	0.8200	0.8300		Positive				Positive		82.60%	82.80%
Positive Avg				Positive Macro Ave	0.5800 58.60%			Positive Macro Av				Positive Avg	0.8200	0.8300		Positive Macro Avg				Positive Macro Avg		82.60% 0.8200	0.8200
Positive Avg	58.80%	59.40%	59.00%		0.5800 58.60%	59.40%	59.00%		58.20%	58.00%	58.00%	Positive Avg	0.8200 82.40%	0.8300 83.20%	82.80%		84.60%	82.20%	82.40%		82.80%		
Positive Avg  Macro Avg	58.80% 0.5900	59.40% 0.5900	59.00% 0.5900 0.5800 0.5900		0.5800 58.60% 0.5700	59.40% 0.5700	59.00% 0.5700 0.5900 0.6000		58.20%	58.00% 0.5800 0.6000 0.5800	0.5800 0.6000 0.5800	Positive Avg  Macro Avg	0.8200 82.40% 0.8300	0.8300 83.20% 0.8300	0.8300 0.8300 0.8300		84.60% 0.8300	82.20% 0.8300	0.8300 0.8300 0.8200		82.80% 0.8200	0.8200	0.8200 0.8300 0.8300
	0.5900 0.5800 0.5900 0.5800	0.5900 0.5800 0.5900 0.5900 0.5800	0.5900 0.5800 0.5900 0.5800		0.5800 58.60% 0.5700 0.5900 0.6000 0.5800	0.5700 0.5900 0.6000 0.5800	59.00% 0.5700 0.5900 0.6000 0.5800		58.20% 0.5800 0.6000 0.5800 0.5800	0.5800 0.6000 0.5800 0.5800	58.00% 0.5800 0.6000 0.5800 0.5800		0.8200 82.40% 0.8300 0.8300 0.8300 0.8300	0.8300 83.20% 0.8300 0.8300 0.8300 0.8300	0.8300 0.8300 0.8300 0.8300 0.8300		0.8300 0.8400 0.8200 0.8300	0.8300 0.8400 0.8200 0.8300	0.8300 0.8300 0.8200 0.8300		82.80% 0.8200 0.8300 0.8300 0.8300	0.8200 0.8300 0.8300 0.8300	0.8200 0.8300 0.8300 0.8300
Macro Avg	58.80% 0.5900 0.5800 0.5900 0.5800 0.5900	59.40% 0.5900 0.5800 0.5900 0.5800 0.5900	0.5900 0.5800 0.5800 0.5800 0.5800 0.5900	Macro Av	0.5800 58.60% 0.5700 0.5900 0.6000 0.5800 0.5900	0.5700 0.5900 0.6000 0.5800 0.5900	59.00% 0.5700 0.5900 0.6000 0.5800 0.5900	Macro Av	58.20% 0.5800 0.6000 0.5800 0.5800 0.5700	58.00% 0.5800 0.6000 0.5800 0.5800 0.5700	0.5800 0.6000 0.5800 0.5800 0.5800 0.5700	Macro Avg	0.8200 82.40% 0.8300 0.8300 0.8300 0.8300 0.8200	0.8300 83.20% 0.8300 0.8300 0.8300 0.8300 0.8200	82.80% 0.8300 0.8300 0.8300 0.8300 0.8200	Macro Avg	0.8300 0.8400 0.8200 0.8300 0.8300	0.8300 0.8400 0.8200 0.8300 0.8300	82.40% 0.8300 0.8300 0.8200 0.8300 0.8300	Macro Avg	82.80% 0.8200 0.8300 0.8300 0.8300 0.8300	0.8200 0.8300 0.8300 0.8300 0.8300	0.8200 0.8300 0.8300 0.8300 0.8300
	0.5900 0.5800 0.5900 0.5800	59.40% 0.5900 0.5800 0.5900 0.5800 0.5900	0.5900 0.5800 0.5800 0.5800 0.5800 0.5900		0.5800 58.60% 0.5700 0.5900 0.6000 0.5800 0.5900	0.5700 0.5900 0.6000 0.5800 0.5900	59.00% 0.5700 0.5900 0.6000 0.5800 0.5900	Macro Av	58.20% 0.5800 0.6000 0.5800 0.5800 0.5700	58.00% 0.5800 0.6000 0.5800 0.5800 0.5700	58.00% 0.5800 0.6000 0.5800 0.5800		0.8200 82.40% 0.8300 0.8300 0.8300 0.8300 0.8200	0.8300 83.20% 0.8300 0.8300 0.8300 0.8300 0.8200	82.80% 0.8300 0.8300 0.8300 0.8300 0.8200		0.8300 0.8400 0.8200 0.8300 0.8300	0.8300 0.8400 0.8200 0.8300 0.8300	82.40% 0.8300 0.8300 0.8200 0.8300 0.8300		82.80% 0.8200 0.8300 0.8300 0.8300 0.8300	0.8200 0.8300 0.8300 0.8300 0.8300	0.8200 0.8300 0.8300 0.8300 0.8300
Macro Avg	58.80% 0.5900 0.5800 0.5900 0.5800 0.5900	59.40% 0.5900 0.5800 0.5900 0.5800 0.5900	0.5900 0.5800 0.5800 0.5800 0.5800 0.5900	Macro Av	0.5800 58.60% 0.5700 0.5900 0.6000 0.5800 0.5900	0.5700 0.5900 0.6000 0.5800 0.5900	59.00% 0.5700 0.5900 0.6000 0.5800 0.5900	Macro Av	58.20% 0.5800 0.6000 0.5800 0.5800 0.5700	58.00% 0.5800 0.6000 0.5800 0.5800 0.5700	0.5800 0.6000 0.5800 0.5800 0.5800 0.5700	Macro Avg	0.8200 82.40% 0.8300 0.8300 0.8300 0.8300 0.8200	0.8300 83.20% 0.8300 0.8300 0.8300 0.8300 0.8200	82.80% 0.8300 0.8300 0.8300 0.8300 0.8200	Macro Avg	0.8300 0.8400 0.8200 0.8300 0.8300	0.8300 0.8400 0.8200 0.8300 0.8300	82.40% 0.8300 0.8300 0.8200 0.8300 0.8300	Macro Avg	82.80% 0.8200 0.8300 0.8300 0.8300 0.8300	0.8200 0.8300 0.8300 0.8300 0.8300	0.8200 0.8300 0.8300 0.8300 0.8300
Macro Avg	0.5900 0.5800 0.5900 0.5800 0.5900 0.5800 0.5900 58.60%	0.5900 0.5800 0.5900 0.5800 0.5900 0.5800 0.5900 58.60%	0.5900 0.5800 0.5900 0.5800 0.5900 0.5900 58.60%	Macro Av	0.5800 58.60% 0.5700 0.5900 0.6000 0.5800 0.5900 58.60%	59.40% 0.5700 0.5900 0.6000 0.5800 0.5900 58.60%	59.00% 0.5700 0.5900 0.6000 0.5800 0.5900 58.60%	Macro Av	58.20% 0.5800 0.6000 0.5800 0.5800 0.5700 58.20%	58.00% 0.5800 0.6000 0.5800 0.5800 0.5700 58.20%	0.5800 0.6000 0.5800 0.5800 0.5800 0.5700 58.20%	Macro Avg	0.8200 82.40% 0.8300 0.8300 0.8300 0.8300 0.8200 82.80%	0.8300 83.20% 0.8300 0.8300 0.8300 0.8300 0.8200 82.80%	0.8300 0.8300 0.8300 0.8300 0.8300 0.8200 82.80%	Macro Avg	0.8300 0.8400 0.8200 0.8300 0.8300 0.8300 83.00%	0.8300 0.8400 0.8200 0.8300 0.8300 83.00%	0.8300 0.8300 0.8200 0.8300 0.8300 0.8300 82.80%	Macro Avg	82.80% 0.8200 0.8300 0.8300 0.8300 0.8300 82.80%	0.8200 0.8300 0.8300 0.8300 0.8300 82.80%	0.8200 0.8300 0.8300 0.8300 0.8300 82.80%
Macro Avg	0.5900 0.5800 0.5900 0.5800 0.5900 58.60%	0.5900 0.5800 0.5900 0.5800 0.5900 0.5900 58.60%	59.00% 0.5900 0.5800 0.5900 0.5800 0.5900 58.60%	Macro Av	0.5800 58.60% 0.5700 0.5900 0.6000 0.5800 0.5900 58.60%	59.40% 0.5700 0.5900 0.6000 0.5800 0.5900 58.60%	59.00% 0.5700 0.5900 0.6000 0.5800 0.5900 58.60%	Macro Av	58.20% 0.5800 0.6000 0.5800 0.5800 0.5700 58.20%	0.5800 0.6000 0.5800 0.5800 0.5700 58.20%	0.5800 0.6000 0.5800 0.5800 0.5800 0.5700 58.20%	Macro Avg	0.8200 82.40% 0.8300 0.8300 0.8300 0.8300 0.8200 82.80%	0.8300 83.20% 0.8300 0.8300 0.8300 0.8300 0.8200 82.80%	0.8300 0.8300 0.8300 0.8300 0.8300 0.8200 82.80%	Macro Avg	0.8300 0.8400 0.8200 0.8300 0.8300 83.00%	0.8300 0.8400 0.8200 0.8300 0.8300 83.00%	0.8300 0.8300 0.8200 0.8300 0.8300 82.80%	Macro Avg	82.80% 0.8200 0.8300 0.8300 0.8300 0.8300 82.80%	0.8200 0.8300 0.8300 0.8300 0.8300 82.80%	0.8200 0.8300 0.8300 0.8300 0.8300 82.80%
Macro Avg  AVG Of Macro Avg	0.5900 0.5800 0.5900 0.5800 0.5900 0.5900 58.60%	0.5900 0.5800 0.5900 0.5800 0.5900 0.5900 58.60%	0.5900 0.5800 0.5900 0.5800 0.5900 0.5900 58.60%	Macro Av	0.5800 58.60% 0.5700 0.5900 0.6000 0.5800 0.5900 58.60% 0.5700 0.5900	0.5700 0.5900 0.6000 0.5800 0.5900 58.60% 0.5700 0.5900	0.5700 0.5900 0.6000 0.5800 0.5900 58.60%	Macro Av	58.20% 0.5800 0.6000 0.5800 0.5700 58.20% 0.5800 0.6000	0.5800 0.6000 0.5800 0.5800 0.5700 58.20%	0.5800 0.6000 0.5800 0.5800 0.5800 0.5700 58.20%	Macro Avg  AVG Of Macro Avg	0.8200 82.40% 0.8300 0.8300 0.8300 0.8200 82.80% 0.8300 0.8300	0.8300 83.20% 0.8300 0.8300 0.8300 0.8300 0.8200 82.80% 0.8300 0.8300	0.8300 0.8300 0.8300 0.8300 0.8300 0.8200 82.80%	Macro Avg	0.8300 0.8400 0.8200 0.8300 0.8300 83.00% 0.8300 0.8300 0.8400	0.8300 0.8400 0.8200 0.8300 0.8300 83.00% 0.8300 0.8300 0.8400	0.8300 0.8300 0.8200 0.8300 0.8300 82.80%	Macro Avg	82.80% 0.8200 0.8300 0.8300 0.8300 0.8300 82.80% 0.8200 0.8300	0.8200 0.8300 0.8300 0.8300 0.8300 82.80% 0.8200 0.8300	0.8200 0.8300 0.8300 0.8300 0.8300 82.80%
Macro Avg	0.5900 0.5800 0.5900 0.5800 0.5900 58.60% 0.5900 0.5900 0.5900	59.40% 0.5900 0.5800 0.5900 0.5800 0.5900 58.60% 0.5900 0.5800 0.5900	0.5900% 0.5900 0.5800 0.5900 0.5800 0.5900 58.60% 0.5900 0.5800 0.5900	Macro Av	0.5800 58.60% 0.5700 0.5900 0.6000 0.5800 0.5900 58.60% 0.5700 0.5900 0.6000	0.5700 0.5900 0.6000 0.5800 0.5900 58.60% 0.5700 0.5900 0.5900	0.5700 0.5900 0.6000 0.5800 0.5900 58.60% 0.5700 0.5900 0.6000	Macro Av	58.20% : 0.5800 0.6000 0.5800 0.5800 0.5700 : 58.20% : 0.5800 0.6000 0.5800	0.5800 0.6000 0.5800 0.5800 0.5700 58.20% 0.5800 0.6000 0.5800	58.00%  0.5800 0.6000 0.5800 0.5800 0.5700 58.20%  0.5800 0.5800 0.5800 0.5800	Macro Avg	0.8200 82.40% 0.8300 0.8300 0.8300 0.8200 82.80% 0.8300 0.8300 0.8300 0.8300	0.8300 83.20% 0.8300 0.8300 0.8300 0.8200 82.80% 0.8300 0.8300 0.8300 0.8300	0.8300 0.8300 0.8300 0.8300 0.8200 82.80% 0.8300 0.8300 0.8300	Macro Avg	0.8300 0.8400 0.8200 0.8300 0.8300 83.00% 0.8300 0.8400 0.8200	82.20% 0.8300 0.8400 0.8200 0.8300 0.8300 83.00% 0.8300 0.8400 0.8200	82.40% 0.8300 0.8300 0.8200 0.8300 0.8300 82.80% 0.8300 0.8300 0.8300 0.8200	Macro Avg	82.80% 0.8200 0.8300 0.8300 0.8300 0.8300 82.80% 0.8200 0.8300 0.8300	0.8200 0.8300 0.8300 0.8300 0.8300 82.80% 0.8200 0.8300 0.8300	0.8200 0.8300 0.8300 0.8300 0.8300 82.80% 0.8200 0.8300 0.8300
Macro Avg  AVG Of Macro Avg	0.5900 0.5800 0.5900 0.5800 0.5900 58.60%	0.5900 0.5800 0.5900 0.5800 0.5900 0.5900 58.60%	0.5900 0.5800 0.5900 0.5800 0.5900 0.5900 58.60%	Macro Av	0.5800 58.60% 0.5700 0.5900 0.6000 0.5800 0.5900 58.60% 0.5700 0.5900	0.5700 0.5900 0.6000 0.5800 0.5900 58.60% 0.5700 0.5900	0.5700 0.5900 0.6000 0.5800 0.5900 58.60%	Macro Av	58.20% 0.5800 0.6000 0.5800 0.5700 58.20% 0.5800 0.6000	0.5800 0.6000 0.5800 0.5800 0.5700 58.20%	0.5800 0.6000 0.5800 0.5800 0.5800 0.5700 58.20%	Macro Avg  AVG Of Macro Avg	0.8200 82.40% 0.8300 0.8300 0.8300 0.8200 82.80% 0.8300 0.8300	0.8300 83.20% 0.8300 0.8300 0.8300 0.8300 0.8200 82.80% 0.8300 0.8300	0.8300 0.8300 0.8300 0.8300 0.8300 0.8200 82.80%	Macro Avg	0.8300 0.8400 0.8200 0.8300 0.8300 83.00% 0.8300 0.8300 0.8400	0.8300 0.8400 0.8200 0.8300 0.8300 83.00% 0.8300 0.8300 0.8400	0.8300 0.8300 0.8200 0.8300 0.8300 82.80%	Macro Avg	82.80% 0.8200 0.8300 0.8300 0.8300 0.8300 82.80% 0.8200 0.8300	0.8200 0.8300 0.8300 0.8300 0.8300 82.80% 0.8200 0.8300	0.8200 0.8300 0.8300 0.8300 0.8300

	Final Results of performance metrics, accuracy, recall, precision, and F1 scores																			
Epoch = 10/SGD /window = 3			Epoch = 10/SGD /window = 5			Epoch = 10/SGD /window = 7				Epoch = 8/Adam/windo				Epoch = 8/Adam/window = 5			Epoch = 8/Adam/window		indow = 7	
	Precision	recall	F1-score	Precision	recall	F1-score	Precision	recall	F1-score			Precision	recall	F1-score	Precision	recall	F1-score	Precision	recall	F1-score
Negative(%)	59	60.4	59.4	59.25	57.2	58.4	58	59.6	58.6		Negative(%)	83.2	82.4	82.6	81.2	85.2	83.2	82.8	82.6	82.8
Positive(%)	59.8	58.4	59	58.4	60	59.2	58.4	56.8	57.6		Positive(%)	82.4	83.2	82.8	84.6	82.2	82.4	82.8	82.6	82.8
Macro Avg(%)	59.6	59.6	59.6	58.8	58.8	58.8	58.2	58	58	1	Macro Avg(%)	82.8	82.8	82.8	83	83	82.8	82.8	82.8	82.8
Weighted Avg(%)	59.6	59.6	59.6	58.8	58.8	58.8	58.2	58	58		Weighted Avg(%)	82.8	82.8	82.8	83	83	82.8	82.8	82.8	82.8
Epoch	n = 10/Adam	/window = 3		Epoch = 10/Adam/window = 5			Epoch = 10/Adam/window = 7				Epo	och = 8 /SGD	/window = 3		Epoch =	8/SGD /v	vindow = 5	Epoch = 8	/SGD /wi	ndow = 7
	Precision	recall	F1-score	Precision	recall	F1-score	Precision	recall	F1-score			Precision	recall	F1-score	Precision	recall	F1-score	Precision	recall	F1-score
Negative(%)	84.2	83	83.4	83	83.6	83.4	82.4	85.6	84.2		Negative(%)	58.6	58.2	58.4	58.6	57.4	58	57.8	57.8	58
Positive(%)	83.6	84.4	84	84	82.6	83.4	85	82	83.6		Positive(%)	58.8	59.4	59	58.6	59.4	59	58.2	58	58
Macro Avg(%)	84	84	84	83.6	83.4	83.4	84	84	84	1	Macro Avg(%)	58.6	58.6	58.6	58.6	58.6	58.6	58.2	58.2	58.2
Weighted Avg(%)	84	84	84	83.6	83.4	83.4	84	84	84		Weighted Avg(%)	58.6	58.6	58.6	58.6	58.6	58.6	58.2	58.2	58.2

				Exp	erime	ntal Resul	ts of C	onfusion N	Matr	ix					
Epo	och = 10/Adar	n/ Window =	= 3		Е	poch = 10/Ad	lam/ Windo	ow = 5		Ер	och = 10/Ada	m/ Window =	= 7		
False Positive	True Negative	Ture Positive	False Negative		False	True Negative	Ture	False Negative		False Positive	True Negative	Ture Positive	False Negative		
0.15	0.85	0.84	0.16		0.16	0.84	0.82	0.18		0.18	0.82	0.85	0.15		
0.18	0.82	0.85	0.15		0.13	0.87	0.80	0.20		0.20	0.80	0.86	0.14		
0.14	0.86	0.81	0.19		0.19	0.81	0.87	0.13		0.15	0.85	0.75	0.25		
0.15	0.85	0.82	0.18		0.20	0.80	0.87	0.13		0.17	0.83	0.86	0.14		
0.16	0.84	0.83	0.17		0.19	0.81	0.84	0.16		0.18	0.82	0.85	0.15		
0.16	0.84	0.84	0.16		0.16	0.84	0.84	0.16		0.17	0.83	0.86	0.14		
0.16	0.84	0.83	0.17	AVG	0.17	0.83	0.84	0.16	AVG	0.18	0.83	0.84	0.16		
0.10	0.04	0.00	0.17	Α,,	0.11	0.00	0.04	0.10	Α	0.10	0.00	0.04	0.10		
En	och = 10/ SGI	)/ Window =	- 2		Т	Epoch = 10/ S0	GD/Windo	w = 5		E.	och = 10/ SG	D/Window =	7		
						*									
False Negative	Ture Positive		False Positive		False	Ture Positive	True	False Positive		False Negative	Ture Positive	True Negative	False Positive		
0.44	0.56	0.61	0.39		0.41	0.59	0.59	0.41		0.41	0.59	0.57	0.43		
0.40	0.60	0.58	0.42		0.42	0.58	0.60	0.40		0.41	0.59	0.57	0.43		
0.42	0.58	0.62	0.38		0.40	0.60	0.60	0.40		0.41	0.59	0.59	0.41		
0.44	0.56	0.65	0.35		0.40	0.60	0.56	0.44		0.48	0.52	0.63	0.37		
0.39	0.61	0.57	0.43		0.39	0.61	0.58	0.42		0.45	0.55	0.62	0.38		
0.43	0.57	0.60	0.40		0.38	0.62	0.54	0.46		0.40	0.60	0.59	0.41		
0.42	0.58	0.61	0.40	AVG	0.40	0.60	0.58	0.42	AVG	0.43	0.57	0.60	0.41		
Ерс	och = 8/ Adam				Epoch = 8/ Adam/ Window = 5					Epoch = 8/ Adam/ Window = 7					
False Positive	True Negative				False	True Negative		False Negative		False Positive	True Negative		False Negative		
0.17	0.83	0.83	0.17		0.20	0.80	0.85	0.15		0.18	0.82	0.85	0.15		
0.18	0.82	0.85	0.15		0.21	0.79	0.88	0.12		0.17	0.83	0.83	0.17		
0.19	0.81	0.85	0.15		0.19	0.81	0.84	0.16		0.16	0.84	0.81	0.19		
0.19	0.81	0.85	0.15		0.16	0.84	0.80	0.20		0.20	0.80	0.86	0.14		
0.16 0.15	0.84 0.85	0.82 0.80	0.18 0.20		0.17 0.23	0.83 0.77	0.82	0.18 0.14		0.18 0.17	0.82 0.83	0.83 0.84	0.17 0.16		
0.13	0.83	0.83	0.20	AVG	0.23	0.77	0.84	0.14	AVG	0.17	0.82	0.84	0.16		
Ep	och = 8/SGD	/ Window =	3		Epoch = 8/ SGD/ Window = 5					Е	poch = 8/SG	D/ Window =	7		
False Negative					False	Ture Positive	True	False Positive		False Negative	Ture Positive	True Negative			
0.38	0.62	0.57	0.43		0.41	0.59	0.55	0.45		0.45	0.55	0.60	0.40		
0.40	0.60	0.57	0.43		0.42	0.58	0.59	0.41		0.42	0.58	0.61	0.49		
0.41	0.59	0.59	0.41		0.42	0.58	0.62	0.38		0.39	0.61	0.54	0.46		
0.43	0.57	0.59	0.41		0.42	0.58	0.58	0.42		0.44	0.56	0.60	0.40		
0.41 0.42	0.59	0.59	0.41		0.36	0.64	0.53	0.47		0.40	0.60	0.55	0.45		
0.42	0.58 <b>0.59</b>	0.57 <b>0.58</b>	0.43	AVG	0.39 <b>0.40</b>	0.61 <b>0.60</b>	0.58 <b>0.58</b>	0.42 <b>0.43</b>	AVG	0.42 <b>0.42</b>	0.58 <b>0.58</b>	0.59 <b>0.58</b>	0.41 <b>0.44</b>		
					Final	Results o	f Confi	sion Mat	riy						
			Adam		. IIIai	Nesults U	. 551116	SIOII WIAL	11/	SGD					
		True Positive			False Neg	ative		Tr	rue Posi	tive		False Negative	)		
Window Size	3	5	7	3	5		Window Size		5	7	3	5	7		
Epoch = 8	0.83	0.84	0.84	0.17	0.16	0.16	Epoch = 8	0.59	0.60	0.58	0.41	0.40	0.42		
Epoch = 10	0.83	0.84	0.84	0.17	0.16	0.16	Epoch = 10	0.58	0.60	0.57	0.42	0.40	0.43		
	1	True Negative			False Pos				ue Nega			False Positive			
Window Sizo	2	5	7	2		7	Window Sizo	2		7	2	5	7		

Window Size Epoch = 8 Epoch = 10 *5* 0.58

0.58

0.58

0.60

3

0.58

0.61

*3* 0.42

0.40

*5* 0.43

0.42

0.44

0.41

Window Size Epoch = 8 Epoch = 10

*3* 0.83

0.84

*5* 

0.83

*3* 0.17

0.16

0.82

0.83

5 0.19 0.17

0.18

0.18

		Ex	perimental Res	sults of diff	ferent Opti	imizer						
	Optimizer and Windo	w Values (epoch = 8/ sg	= 0)		Optimizer and Window Values (epoch = 8/ sg = 0)							
	BenchMark	First Comparing One	Second Comparing One			BenchMark	First Comparing One	Second Comparing One				
Optimizer/ Window Value	Adam + Window 3	Adam + Window5	Adam + Window 7		Optimizer/ Window Value	SGD + Window 3	SGD + Window5	SGD + Window 7				
	82.56	82.90	79.58			58.59	56.19	56.34				
	82.58	82.60	83.28			59.13	58.40	57.95				
	83.24	82.57	82.08			59.33	57.30	57.54				
Adam	83.19	83.50	83.11		SGD	58.39	58.87	59.60				
Adam	82.71	83.38	82.61		SGD	59.17	59.85	57.76				
	83.11	82.22	83.12			58.32	58.04	57.94				
	83.14 82.85		82.59			58.58	58.79	57.45				
	82.73	81.54	83.79			57.66	59.34	58.49				
AVG	82.96	82.67	82.94		AVG	58.65	58.35	58.10				
Stdev	0.29	0.63	1.30		Stdev	0.55	1.17	0.93				
	Optimizer and Window	w Values (epoch = 10/ sg	= 0)			Optimizer and Window	Values (epoch = 10/ sg	g = 0)				
	BenchMark	First Comparing One	Second Comparing One			BenchMark	First Comparing One	Second Comparing One				
Optimizer/ Window Value	Adam + Window 3	Adam + Window5	Adam + Window 7		Optimizer/ Window Value	SGD + Window 3	SGD + Window5	SGD + Window 7				
	83.31	83.53	83.21			58.73	59.91	59.62				
	83.49 83.74		84.07			58.90	58.64	58.08				
	84.08     83.29       83.89     83.48       83.66     83.55       83.57     83.60		83.51			58.75	59.08	57.89				
Adam			83.10		SGD	59.66	60.07	58.72				
			80.03			60.58	58.20	57.45				
			84.10			59.06	59.69	58.23				
	83.61	82.91	83.58			59.48	59.24	58.18				
	83.95	84.07	84.51			58.54	58.21	59.56				
AVG	83.75	83.52	83.27		AVG	59.21	59.13	58.47				
Stdev	0.26	0.33	1.39		Stdev	0.67	0.73	0.78				