1 Results tables

1.1 Performance metrics of the male and female noisy datasets in different noisy environments

	Accu	ıracy	Prec	ision	Recall		F1-score	
Noise category	M	F	M	F	M	F	M	F
Nature	0.81	0.84	0.84	0.86	0.92	0.94	0.88	0.89
Domestic	0.84	0.85	0.87	0.87	0.92	0.94	0.9	0.9
Street	0.85	0.85	0.87	0.87	0.93	0.94	0.9	0.9
Public	0.76	0.74	0.77	0.74	0.98	0.99	0.86	0.84
Transportation	0.84	0.83	0.86	0.84	0.94	0.94	0.9	0.89
Office	0.86	0.86	0.89	0.89	0.91	0.93	0.9	0.91
Total	0.82	0.83	0.85	0.84	0.93	0.95	0.89	0.89

Table 1: Model: silero, confidence threshold: 0.1

	Accu	ıracy	Prec	ision	Rec	call	F1-s	F1-score	
Noise category	M	F	M	F	M	F	M	F	
Nature	0.85	0.87	0.9	0.9	0.89	0.92	0.9	0.91	
Domestic	0.84	0.86	0.88	0.88	0.91	0.94	0.9	0.9	
Street	0.88	0.88	0.94	0.91	0.91	0.92	0.92	0.92	
Public	0.79	0.77	0.8	0.77	0.96	0.97	0.87	0.86	
Transportation	0.87	0.88	0.92	0.92	0.9	0.92	0.91	0.92	
Office	0.86	0.87	0.9	0.89	0.92	0.93	0.91	0.91	
Total	0.85	0.85	0.88	0.87	0.92	0.93	0.9	0.9	

Table 2: Model: silero, confidence threshold: 0.2

	Accu	ıracy	Prec	ision	Re	call	F1-s	core
Noise category	M	F	M	F	M	F	M	F
Nature	0.86	0.89	0.93	0.93	0.88	0.91	0.9	0.92
Domestic	0.87	0.88	0.92	0.91	0.9	0.92	0.91	0.92
Street	0.89	0.91	0.96	0.96	0.88	0.91	0.92	0.93
Public	0.81	0.81	0.84	0.81	0.93	0.96	0.88	0.88
Transportation	0.89	0.9	0.96	0.95	0.89	0.91	0.92	0.93
Office	0.85	0.87	0.9	0.9	0.91	0.93	0.9	0.91
Total	0.86	0.87	0.91	0.9	0.9	0.92	0.91	0.91

Table 3: Model: silero, confidence threshold: 0.3

	Accu	ıracy	Prec	ision	Rec	call	F1-s	F1-score	
Noise category	M	F	M	F	M	F	M	F	
Nature	0.88	0.9	0.95	0.95	0.87	0.9	0.91	0.93	
Domestic	0.87	0.89	0.95	0.93	0.88	0.92	0.91	0.92	
Street	0.89	0.91	0.97	0.97	0.88	0.91	0.92	0.94	
Public	0.84	0.83	0.86	0.84	0.93	0.95	0.9	0.89	
Transportation	0.88	0.91	0.96	0.96	0.88	0.91	0.92	0.94	
Office	0.86	0.87	0.91	0.9	0.9	0.92	0.9	0.91	
Total	0.87	0.88	0.93	0.92	0.89	0.92	0.91	0.92	

Table 4: Model: silero, confidence threshold: 0.4

	Accu	ıracy	Prec	ision	Re	call	F1-s	core
Noise category	M	F	M	F	M	F	M	F
Nature	0.88	0.91	0.97	0.96	0.87	0.9	0.92	0.93
Domestic	0.89	0.9	0.96	0.95	0.89	0.91	0.92	0.93
Street	0.88	0.91	0.98	0.98	0.86	0.9	0.92	0.94
Public	0.85	0.84	0.89	0.86	0.91	0.94	0.9	0.9
Transportation	0.89	0.92	0.98	0.98	0.87	0.91	0.92	0.94
Office	0.86	0.88	0.91	0.91	0.9	0.92	0.9	0.92
Total	0.87	0.89	0.94	0.93	0.88	0.91	0.91	0.92

Table 5: Model: silero, confidence threshold: 0.5

	Accu	ıracy	Prec	ision	Rec	call	F1-s	F1-score	
Noise category	M	F	M	F	M	F	M	F	
Nature	0.88	0.91	0.98	0.97	0.85	0.9	0.91	0.94	
Domestic	0.89	0.91	0.97	0.97	0.88	0.9	0.92	0.94	
Street	0.89	0.91	0.99	0.98	0.86	0.9	0.92	0.94	
Public	0.85	0.86	0.91	0.89	0.89	0.92	0.9	0.9	
Transportation	0.89	0.92	0.98	0.98	0.87	0.9	0.92	0.94	
Office	0.85	0.88	0.91	0.92	0.88	0.92	0.9	0.92	
Total	0.87	0.9	0.95	0.95	0.87	0.91	0.91	0.93	

Table 6: Model: silero, confidence threshold: 0.6

	Accu	ıracy	Prec	ision	Re	call	F1-s	core
Noise category	M	F	M	F	M	F	M	F
Nature	0.87	0.91	0.99	0.99	0.84	0.9	0.91	0.94
Domestic	0.88	0.91	0.98	0.98	0.85	0.9	0.91	0.94
Street	0.88	0.91	0.99	0.99	0.84	0.89	0.91	0.94
Public	0.85	0.86	0.94	0.91	0.86	0.9	0.9	0.91
Transportation	0.88	0.92	0.99	0.99	0.85	0.9	0.91	0.94
Office	0.86	0.88	0.93	0.92	0.88	0.91	0.9	0.92
Total	0.87	0.9	0.97	0.96	0.85	0.9	0.91	0.93

Table 7: Model: silero, confidence threshold: 0.7

	Accu	ıracy	Prec	ision	Rec	call	F1-s	core
Noise category	M	F	M	F	M	F	M	F
Nature	0.88	0.91	0.99	0.99	0.84	0.89	0.91	0.94
Domestic	0.87	0.91	0.99	0.99	0.83	0.89	0.9	0.94
Street	0.87	0.91	0.99	1.0	0.83	0.88	0.91	0.93
Public	0.84	0.86	0.96	0.93	0.82	0.87	0.89	0.9
Transportation	0.88	0.91	0.99	0.99	0.84	0.89	0.91	0.94
Office	0.85	0.88	0.93	0.93	0.86	0.91	0.89	0.92
Total	0.86	0.9	0.97	0.97	0.84	0.89	0.9	0.93

Table 8: Model: silero, confidence threshold: 0.8

	Accu	ıracy	Prec	ision	Re	call	F1-s	core
Noise category	M	F	M	F	M	F	M	F
Nature	0.86	0.9	0.99	1.0	0.82	0.87	0.9	0.93
Domestic	0.86	0.91	1.0	1.0	0.81	0.87	0.9	0.93
Street	0.87	0.9	1.0	1.0	0.83	0.86	0.9	0.92
Public	0.8	0.83	0.97	0.96	0.75	0.8	0.85	0.88
Transportation	0.87	0.91	0.99	1.0	0.83	0.88	0.91	0.93
Office	0.85	0.88	0.94	0.94	0.86	0.9	0.9	0.92
Total	0.85	0.89	0.98	0.98	0.82	0.86	0.89	0.92

Table 9: Model: silero, confidence threshold: 0.9

	Accu	ıracy	Prec	ision	Rec	call	F1-s	F1-score	
Noise category	M	F	M	F	M	F	M	F	
Nature	0.82	0.82	0.82	0.82	0.97	0.96	0.89	0.89	
Domestic	0.84	0.82	0.84	0.82	0.97	0.97	0.9	0.89	
Street	0.78	0.77	0.77	0.77	0.99	0.98	0.87	0.86	
Public	0.74	0.73	0.74	0.73	1.0	1.0	0.85	0.84	
Transportation	0.82	0.82	0.81	0.82	0.98	0.98	0.89	0.89	
Office	0.83	0.82	0.83	0.82	0.97	0.97	0.9	0.89	
Total	0.8	0.8	0.8	0.79	0.98	0.98	0.88	0.88	

Table 10: Model: webrtc-vad, confidence threshold: 0

	Accu	ıracy	Prec	ision	Re	call	F1-s	core
Noise category	M	F	M	F	M	F	M	F
Nature	0.83	0.84	0.83	0.85	0.96	0.96	0.89	0.9
Domestic	0.84	0.83	0.84	0.83	0.97	0.97	0.9	0.89
Street	0.8	0.8	0.8	0.79	0.98	0.98	0.88	0.87
Public	0.74	0.73	0.74	0.73	1.0	1.0	0.85	0.84
Transportation	0.83	0.84	0.83	0.83	0.96	0.97	0.89	0.9
Office	0.84	0.83	0.84	0.83	0.96	0.96	0.9	0.89
Total	0.81	0.81	0.81	0.81	0.97	0.97	0.89	0.88

Table 11: Model: webrtc-vad, confidence threshold: 1

	Accu	ıracy	Prec	ision	Rec	call	F1-s	F1-score	
Noise category	M	F	M	F	M	F	M	F	
Nature	0.83	0.86	0.84	0.87	0.94	0.94	0.89	0.91	
Domestic	0.84	0.84	0.85	0.85	0.94	0.96	0.9	0.9	
Street	0.8	0.81	0.8	0.81	0.98	0.97	0.88	0.88	
Public	0.74	0.73	0.74	0.73	1.0	1.0	0.85	0.84	
Transportation	0.85	0.86	0.86	0.87	0.95	0.96	0.9	0.91	
Office	0.84	0.84	0.86	0.84	0.94	0.95	0.9	0.89	
Total	0.82	0.82	0.82	0.82	0.96	0.96	0.89	0.89	

Table 12: Model: webrtc-vad, confidence threshold: 2

	Accuracy		Prec	ision	Re	call	F1-score		
Noise category	M	F	M	F	M	F	M	F	
Nature	0.79	0.68	0.96	0.99	0.76	0.57	0.84	0.72	
Domestic	0.82	0.74	0.97	0.99	0.79	0.65	0.87	0.79	
Street	0.75	0.46	0.95	0.97	0.7	0.26	0.81	0.41	
Public	0.7	0.36	0.92	0.98	0.65	0.12	0.77	0.21	
Transportation	0.84	0.8	0.97	1.0	0.8	0.73	0.88	0.84	
Office	0.81	0.79	0.94	0.97	0.79	0.73	0.86	0.84	
Total	0.79	0.65	0.95	0.98	0.75	0.53	0.84	0.69	

Table 13: Model: webrtc-vad, confidence threshold: 3

1.2 Performance metrics of the "Total" category of noise for different SNR levels

	Accuracy					Precision							
Threshold	20	10	0	-10	-20	20	10	0	-10	-20			
0.1	0.9	0.9	0.85	0.79	0.7	0.97	0.96	0.88	0.81	0.79			
0.2	0.91	0.9	0.87	0.81	0.68	0.99	0.97	0.91	0.85	0.83			
0.3	0.91	0.9	0.88	0.82	0.65	0.99	0.98	0.93	0.87	0.85			
0.4	0.91	0.9	0.88	0.82	0.62	1.0	0.99	0.94	0.89	0.86			
0.5	0.91	0.9	0.88	0.82	0.61	1.0	0.99	0.95	0.9	0.87			
0.6	0.91	0.9	0.89	0.81	0.58	1.0	0.99	0.96	0.91	0.89			
0.7	0.9	0.9	0.89	0.8	0.55	1.0	0.99	0.96	0.92	0.9			
0.8	0.9	0.9	0.89	0.78	0.52	1.0	0.99	0.97	0.93	0.91			
0.9	0.9	0.9	0.88	0.76	0.47	1.0	1.0	0.98	0.95	0.93			
		Recall					F1-Score						
Threshold	20	10	0	-10	-20	20	10	0	-10	-20			
0.1	0.89	0.9	0.93	0.95	0.82	0.93	0.93	0.9	0.87	0.8			
0.2	0.89	0.89	0.91	0.92	0.72	0.93	0.93	0.91	0.88	0.77			
0.3	0.88	0.89	0.91	0.9	0.66	0.94	0.93	0.92	0.88	0.74			
0.4	0.88	0.89	0.91	0.88	0.6	0.93	0.93	0.92	0.88	0.71			
0.5	0.88	0.88	0.9	0.85	0.56	0.93	0.93	0.92	0.87	0.68			
0.6	0.88	0.88	0.89	0.83	0.5	0.93	0.93	0.92	0.87	0.64			
0.7	0.87	0.88	0.88	0.8	0.45	0.93	0.93	0.92	0.86	0.6			
0.8	0.87	0.87	0.87	0.77	0.4	0.93	0.93	0.92	0.84	0.55			
0.9	0.87	0.87	0.86	0.72	0.32	0.93	0.93	0.91	0.82	0.48			

Table 14: Performance metrics of the "Total" category for the model: silero

		A	ccurac	y		Precision					
Threshold	20	10	0	-10	-20	20	10	0	-10	-20	
0	0.88	0.85	0.81	0.79	0.75	0.89	0.86	0.81	0.79	0.78	
1	0.89	0.87	0.82	0.79	0.74	0.91	0.89	0.83	0.8	0.79	
2	0.9	0.88	0.83	0.8	0.72	0.93	0.91	0.84	0.81	0.79	
3	0.89	0.72	0.52	0.37	0.28	1.0	1.0	1.0	0.99	0.96	
	Recall					F1-Score					
Threshold	20	10	0	-10	-20	20	10	0	-10	-20	
0	0.96	0.96	0.97	0.97	0.93	0.92	0.91	0.88	0.87	0.85	
1	0.95	0.95	0.96	0.96	0.9	0.93	0.92	0.89	0.88	0.84	
2	0.94	0.93	0.95	0.95	0.86	0.93	0.92	0.89	0.88	0.82	
3	0.86	0.63	0.37	0.16	0.05	0.92	0.78	0.54	0.28	0.09	

Table 15: Performance metrics of the "Total" category for the model: we brtc-vad $\,$