

**Report: a-large-publicly-available-electrocardiography-Supervised Learning****Model : ECGnet**

<b>Train:Test Split</b>	<b>Accuracy</b>	<b>Class</b>	<b>Precision</b>	<b>Recall</b>	<b>F1-Score</b>	<b>GFLOPS</b>
10:90	0.81	CD	0.83	0.74	0.78	0.054
		HYP	0.50	0.45	0.47	
		MI	0.79	0.65	0.72	
		NORM	0.84	0.91	0.87	
		STTC	0.71	0.70	0.70	
20:80	0.80	CD	0.83	0.70	0.76	0.054
		HYP	0.53	0.34	0.42	
		MI	0.76	0.73	0.75	
		NORM	0.82	0.93	0.87	
		STTC	0.76	0.57	0.65	
30:70	78.76%	CD	0.89	0.63	0.74	0.054
		HYP	0.59	0.27	0.37	

		MI	0.85	0.57	0.69	
		NORM	0.84	0.90	0.86	
		STTC	0.59	0.83	0.69	
40:60	77.77%	CD	0.80	0.70	0.74	0.054
		HYP	0.39	0.36	0.37	
		MI	0.82	0.52	0.63	
		NORM	0.83	0.89	0.86	
		STTC	0.61	0.73	0.66	
50:50	0.78	CD	0.77	0.77	0.77	0.054
		HYP	0.46	0.32	0.37	
		MI	0.74	0.66	0.70	
		NORM	0.81	0.92	0.86	
		STTC	0.77	0.49	0.60	
60:40	77.98%	CD	0.88	0.63	0.74	0.054
		HYP	0.47	0.37	0.42	
		MI	0.78	0.64	0.71	
		NORM	0.84	0.87	0.85	
		STTC	0.60	0.79	0.68	

70:30	78.93%	CD	0.70	0.78	0.74	0.054
		HYP	0.76	0.16	0.27	
		MI	0.72	0.74	0.73	
		NORM	0.82	0.92	0.87	
		STTC	0.82	0.48	0.61	
80:20	54.95%	CD	0.4335	0.2193	0.2913	0.0094
		HYP	0.0833	0.0093	0.0168	
		MI	0.2929	0.3195	0.3057	
		NORM	0.6522	0.8010	0.7190	
		STTC	0.3345	0.1979	0.2487	
90:10	79.98%	CD	0.81	0.73	0.77	0.054
		HYP	0.57	0.27	0.36	
		MI	0.77	0.68	0.72	
		NORM	0.82	0.93	0.87	
		STTC	0.74	0.60	0.66	

**Model : Resnet1D**

<b>Train:Test Split</b>	<b>Accuracy</b>	<b>Class</b>	<b>Precision</b>	<b>Recall</b>	<b>F1-Score</b>	<b>GFLOPS</b>
10:90	0.76	CD	0.77	0.72	0.74	0.327
		HYP	0.39	0.35	0.37	
		MI	0.68	0.65	0.66	
		NORM	0.85	0.84	0.85	
		STTC	0.61	0.69	0.65	
20:80	0.77	CD	0.81	0.69	0.74	0.327
		HYP	0.55	0.13	0.21	
		MI	0.77	0.57	0.65	
		NORM	0.81	0.91	0.86	
		STTC	0.63	0.71	0.66	
30:70	76.82%	CD	0.77	0.71	0.74	0.327
		HYP	0.44	0.33	0.38	
		MI	0.71	0.62	0.66	
		NORM	0.82	0.88	0.85	
		STTC	0.67	0.62	0.64	

40:60	75.86%	CD	0.68	0.75	0.71	2.335
		HYP	0.36	0.35	0.36	
		MI	0.69	0.62	0.65	
		NORM	0.84	0.86	0.85	
		STTC	0.66	0.63	0.64	
50:50	76.92%	CD	0.75	0.76	0.75	1.600
		HYP	0.39	0.34	0.36	
		MI	0.72	0.61	0.66	
		NORM	0.84	0.87	0.85	
		STTC	0.64	0.65	0.65	
60:40	77.38%	CD	0.78	0.72	0.75	0.327
		HYP	0.45	0.21	0.29	
		MI	0.74	0.56	0.64	
		NORM	0.81	0.91	0.86	
		STTC	0.66	0.65	0.65	
70:30	74%	CD	0.80	0.64	0.71	0.327
		HYP	0.38	0.17	0.23	
		MI	0.58	0.75	0.65	

		NORM	0.84	0.83	0.84	
		STTC	0.58	0.60	0.59	
80:20	79.05%	CD	0.89	0.62	0.73	0.328
		HYP	0.47	0.25	0.33	
		MI	0.78	0.67	0.72	
		NORM	0.80	0.94	0.86	
		STTC	0.74	0.60	0.66	
90:10	77.12%	CD	0.87	0.64	0.74	0.327
		HYP	0.43	0.31	0.36	
		MI	0.68	0.65	0.66	
		NORM	0.82	0.89	0.86	
		STTC	0.65	0.64	0.65	

**Model : RNN**

<b>Train:Test Split</b>	<b>Accuracy</b>	<b>Class</b>	<b>Precision</b>	<b>Recall</b>	<b>F1-Score</b>	<b>GFLOPS</b>
10:90	0.57	CD	0.47	0.17	0.25	0.271
		HYP	0.00	0.00	0.00	
		MI	1.00	0.00	0.00	
		NORM	0.57	0.98	0.72	
		STTC	0.50	0.00	0.01	
20:80	0.56	CD	0.44	0.06	0.10	0.271
		HYP	0.00	0.00	0.00	
		MI	0.33	0.00	0.00	
		NORM	0.56	0.99	0.72	
		STTC	0.31	0.01	0.01	
30:70	56.40%	CD	0.57	0.07	0.07	0.271
		HYP	0.00	0.00	0.00	
		MI	0.00	0.00	0.00	
		NORM	0.56	1.00	1.00	
		STTC	1.00	0.00	0.00	

40:60	56.07%	CD	0.47	0.06	0.11	0.271
		HYP	0	0	0	
		MI	0	0	0	
		NORM	0.56	0.99	0.72	
		STTC	0	0	0	
50:50	56.24%	CD	0.49	0.07	0.13	0.271
		HYP	0.00	0.00	0.00	
		MI	0.00	0.00	0.00	
		NORM	0.56	0.99	0.72	
		STTC	0.43	0.00	0.00	
60:40	56.19%	CD	0.56	0.05	0.10	0.271
		HYP	0.00	0.00	0.00	
		MI	0.14	0.00	0.00	
		NORM	0.56	1.00	0.72	
		STTC	0.00	0.00	0.00	
70:30	56.22%	CD	0.46	0.08	0.14	0.271
		HYP	0	0	0	
		MI	0.14	0	0	



		NORM	0.56	0.99	0.72	
		STTC	0	0	0	
80:20	53.45%	CD	0.34	0.26	0.29	0.271
		HYP	0.17	0.08	0.11	
		MI	0.32	0.27	0.29	
		NORM	0.65	0.77	0.71	
		STTC	0.29	0.22	0.25	
90:10	56.05%	CD	0.43	0.07	0.12	0.271
		HYP	0.00	0.00	0.00	
		MI	0.67	0.00	0.01	
		NORM	0.56	0.99	0.72	
		STTC	0.14	0.00	0.00	

**Model : LSTM**

<b>Train:Test Split</b>	<b>Accuracy</b>	<b>Class</b>	<b>Precision</b>	<b>Recall</b>	<b>F1-Score</b>	<b>GFLOPS</b>
10:90	0.51	CD	0.33	0.25	0.28	0.037
		HYP	0.03	0.02	0.02	
		MI	0.25	0.24	0.24	
		NORM	0.64	0.75	0.69	
		STTC	0.30	0.20	0.24	
20:80	0.53	CD	0.33	0.28	0.30	0.037
		HYP	0.10	0.06	0.07	
		MI	0.29	0.25	0.26	
		NORM	0.65	0.76	0.71	
		STTC	0.31	0.23	0.26	
30:70	52.95%	CD	0.36	0.28	0.31	0.037
		HYP	0.13	0.06	0.08	
		MI	0.27	0.22	0.24	
		NORM	0.64	0.78	0.70	
		STTC	0.29	0.20	0.24	

40:60	48.38%	CD	0.28	0.20	0.23	0.037
		HYP	0.06	0.01	0.02	
		MI	0.20	0.19	0.20	
		NORM	0.62	0.72	0.66	
		STTC	0.27	0.22	0.24	
50:50	0.50	CD	0.28	0.22	0.25	0.037
		HYP	0.06	0.03	0.04	
		MI	0.23	0.21	0.22	
		NORM	0.64	0.73	0.68	
		STTC	0.28	0.21	0.24	
60:40	51.17%	CD	0.30	0.23	0.26	0.037
		HYP	0.08	0.04	0.05	
		MI	0.23	0.20	0.21	
		NORM	0.64	0.75	0.69	
		STTC	0.30	0.23	0.26	
70:30	52.09%	CD	0.32	0.25	0.28	0.037
		HYP	0.07	0.05	0.06	
		MI	0.29	0.21	.25	

		NORM	0.64	0.76	0.70	
		STTC	0.29	0.23	0.26	
80:20	52.68%	CD	0.29	0.28	0.29	0.0374
		HYP	0.03	0.02	0.02	
		MI	0.32	0.28	0.30	
		NORM	0.66	0.74	0.70	
		STTC	0.33	0.25	0.29	
90:10	49.77%	CD	0.29	0.28	0.28	0.037
		HYP	0.11	0.07	0.09	
		MI	0.29	0.27	0.28	
		NORM	0.66	0.68	0.67	
		STTC	0.28	0.29	0.28	