

APPENDIX B

DEEPLINKER – ESG DATASET RESULTS

Table B.1. DeepLinker-ESG ISELTA Dataset Iteration Best Results

Iteration	DeepLinker-ESG – ISELTA Dataset								
	Training			Validation			Test		
	loss	acc	auc	loss	acc	auc	loss	acc	auc
1	0.690	0.553	NaN	0.683	0.750	NaN	0.689	0.563	0.590
2	0.693	0.502	NaN	0.693	0.500	NaN	0.694	0.479	0.526
3	0.692	0.542	NaN	0.683	0.625	NaN	0.691	0.604	0.642
4	5.274	0.539	NaN	0.655	0.625	NaN	0.763	0.547	0.500
5	0.692	0.547	NaN	0.674	0.813	NaN	0.694	0.469	0.605
6	2.767	0.561	NaN	0.699	0.500	NaN	0.899	0.547	0.548
7	0.691	0.530	NaN	0.615	0.938	NaN	0.691	0.656	0.705
8	0.693	0.552	NaN	0.652	0.875	NaN	0.688	0.594	0.587
9	0.693	0.547	NaN	0.691	0.563	NaN	0.683	0.688	0.653
10	0.693	0.517	NaN	0.686	0.688	NaN	0.693	0.557	0.603
11	0.691	0.531	NaN	0.616	0.500	NaN	0.702	0.526	0.585
12	0.612	0.642	NaN	0.577	0.750	NaN	0.626	0.708	0.684
13	0.691	0.555	NaN	0.686	0.594	NaN	0.693	0.599	0.559
14	0.679	0.613	NaN	0.921	0.406	NaN	0.851	0.547	0.456
15	0.692	0.538	NaN	0.689	0.625	NaN	0.690	0.682	0.646
16	0.652	0.641	NaN	0.664	0.781	NaN	0.622	0.729	0.777
17	0.691	0.534	NaN	0.667	0.594	NaN	0.695	0.516	0.587
18	0.691	0.553	NaN	0.678	0.594	NaN	0.692	0.578	0.627
19	0.674	0.567	NaN	0.689	0.719	NaN	0.645	0.708	0.761
20	0.747	0.563	NaN	0.623	0.750	NaN	0.687	0.656	0.653
21	0.519	0.000	NaN	0.531	0.000	NaN	0.479	0.535	0.519
22	0.692	0.536	NaN	0.676	0.688	NaN	0.694	0.604	0.599
23	0.637	0.617	NaN	0.571	0.813	NaN	0.633	0.703	0.732
24	0.707	0.545	NaN	0.654	0.625	NaN	0.695	0.578	0.665



Figure B.1. DeepLinker - ISELTA Dataset – Training – Iteration.8

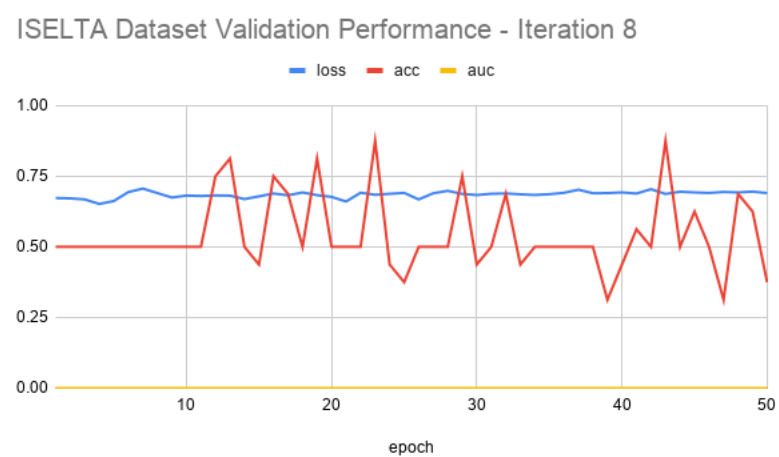


Figure B.2. DeepLinker - ISELTA Dataset – Validation – Iteration.8

ISELTA Dataset Test Performance - Iteration 8

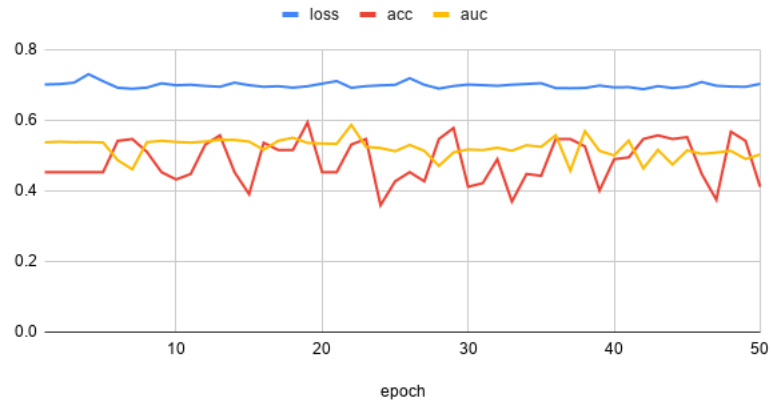


Figure B.3. DeepLinker - ISELTA Dataset – Test – Iteration.8

Table B.2. DeepLinker-ESG Bank Account Dataset Iteration Best Results

Iteration	DeepLinker-ESG – Bank Account Dataset								
	Training			Validation			Test		
	loss	acc	auc	loss	acc	auc	loss	acc	auc
1	0.668	0.607	NaN	0.671	0.667	NaN	0.689	0.688	0.672
2	0.647	0.652	NaN	0.663	0.500	NaN	0.676	0.656	0.578
3	0.578	0.714	NaN	0.566	0.833	NaN	0.695	0.656	0.594
4	0.678	0.616	NaN	0.684	0.667	NaN	0.688	0.781	0.766
5	0.676	0.554	NaN	0.692	0.500	NaN	0.693	0.500	0.660
6	0.679	0.589	NaN	0.596	0.667	NaN	0.695	0.531	0.551
7	0.667	0.616	NaN	0.686	0.667	NaN	0.693	0.781	0.738
8	0.675	0.643	NaN	0.671	0.667	NaN	0.681	0.781	0.703
9	0.685	0.563	NaN	0.683	0.833	NaN	0.688	0.516	0.695
10	0.666	0.589	NaN	0.684	0.833	NaN	0.685	0.594	0.641
11	0.605	0.696	NaN	0.693	0.667	NaN	0.692	0.656	0.648
12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13	0.720	0.555	NaN	0.627	0.833	NaN	0.696	0.500	0.715
14	0.684	0.563	NaN	0.728	0.500	NaN	0.676	0.500	0.600
15	0.956	0.719	NaN	1.030	0.667	NaN	1.606	0.641	0.637
16	2.543	0.617	NaN	0.693	0.500	NaN	0.696	0.563	0.586
17	0.771	0.594	NaN	0.660	0.500	NaN	0.647	0.625	0.678
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Table B.2. (cont.)									
18	0.652	0.547	NaN	0.623	0.500	NaN	0.693	0.500	0.602
19	0.647	0.633	NaN	0.627	0.833	NaN	0.721	0.656	0.570
20	0.685	0.617	NaN	0.691	0.833	NaN	0.685	0.719	0.633
21	0.669	0.633	NaN	0.683	0.667	NaN	0.691	0.500	0.687
22	0.679	0.602	NaN	0.670	0.833	NaN	0.692	0.594	0.531
23	0.594	0.680	NaN	0.694	0.667	NaN	0.677	0.750	0.652
24	0.680	0.594	NaN	0.696	0.833	NaN	0.690	0.750	0.682

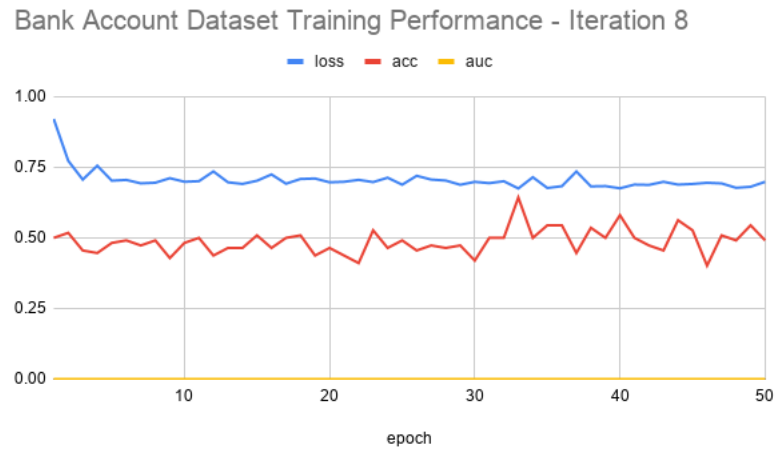


Figure B.4. DeepLinker – Bank Account Dataset – Training – Iteration.8

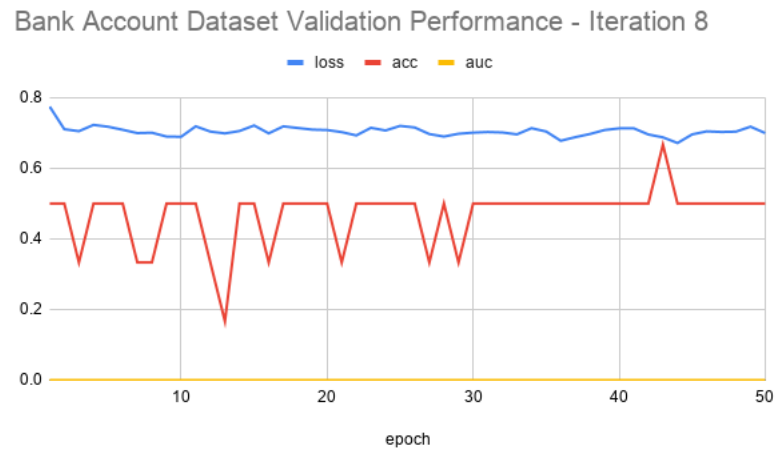


Figure B.5. DeepLinker – Bank Account Dataset – Validation – Iteration.8

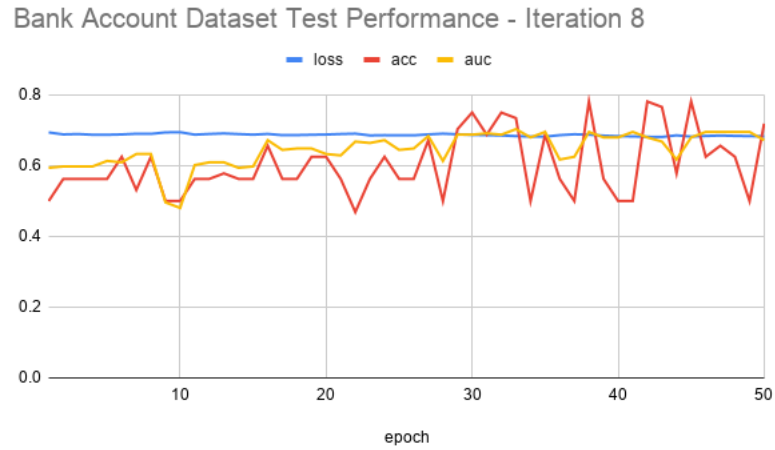


Figure B.6. DeepLinker – Bank Account Dataset – Test – Iteration.8

Table B.3. DeepLinker-ESG Student Attendance Dataset Iteration Best Results

Iteration	DeepLinker-ESG – Student Attendance Dataset								
	Training			Validation			Test		
	loss	acc	auc	loss	acc	auc	loss	acc	auc
1	0.702	0.563	0.000	0.627	0.714	0.000	0.662	0.521	0.685
2	0.685	0.518	0.000	0.650	0.714	0.000	0.676	0.521	0.659
3	0.688	0.585	0.000	0.562	0.714	0.000	0.691	0.635	0.670
4	0.688	0.581	0.000	0.659	0.643	0.000	0.694	0.531	0.711
5	0.883	0.577	0.000	0.590	0.786	0.000	0.686	0.552	0.667
6	0.689	0.540	0.000	0.684	0.571	0.000	0.691	0.552	0.524
7	0.689	0.551	0.000	0.686	0.714	0.000	0.690	0.479	0.703
8	0.684	0.574	0.000	0.646	0.571	0.000	0.683	0.625	0.625
9	0.690	0.526	0.000	0.685	0.571	0.000	0.692	0.563	0.568
10	0.683	0.540	0.000	0.681	0.571	0.000	0.673	0.646	0.708
11	0.686	0.559	0.000	0.706	0.571	0.000	0.688	0.542	0.634
12	0.681	0.559	0.000	0.679	0.714	0.000	0.686	0.583	0.607
13	0.689	0.573	0.000	0.665	0.714	0.000	0.681	0.573	0.688
14	0.693	0.566	0.000	0.666	0.786	0.000	0.684	0.646	0.664
15	0.681	0.566	0.000	0.619	0.571	0.000	0.667	0.656	0.664
16	0.681	0.576	0.000	0.677	0.643	0.000	0.693	0.615	0.582
17	0.691	0.528	0.000	0.672	0.714	0.000	0.685	0.583	0.758
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Table B.3. (cont.)									
18	4.665	0.545	0.000	0.653	0.571	0.000	0.775	0.479	0.539
19	0.694	0.573	0.000	0.659	0.643	0.000	0.703	0.594	0.495
20	0.670	0.573	0.000	0.591	0.571	0.000	0.684	0.583	0.640
21	0.685	0.569	0.000	0.691	0.643	0.000	0.662	0.646	0.638
22	0.688	0.535	0.000	0.687	0.643	0.000	0.693	0.531	0.531
23	0.686	0.573	0.000	0.623	0.714	0.000	0.696	0.573	0.533
24	1.443	0.601	0.000	0.698	0.571	0.000	0.690	0.594	0.627

Student Attendance Dataset Training Performance - Iteration 8

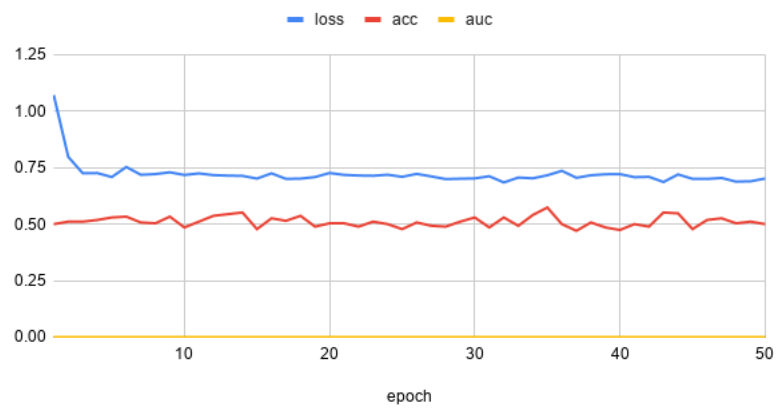


Figure B.7. DeepLinker – Student Attendance Dataset – Training – Iteration.8

Student Attendance Dataset Test Performance - Iteration 8

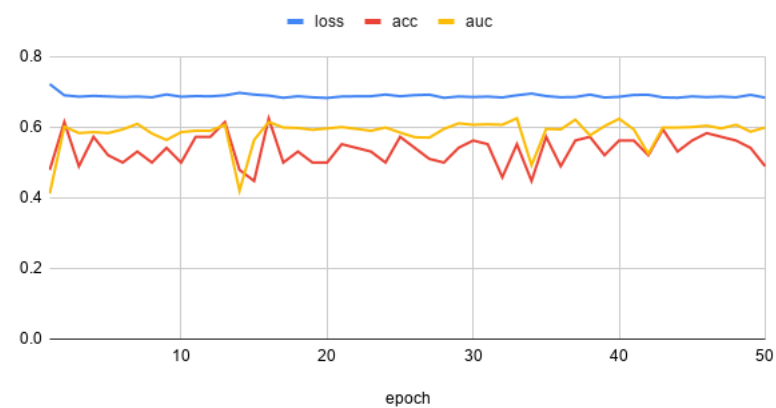


Figure B.8. DeepLinker – Student Attendance Dataset – Validation – Iteration.8

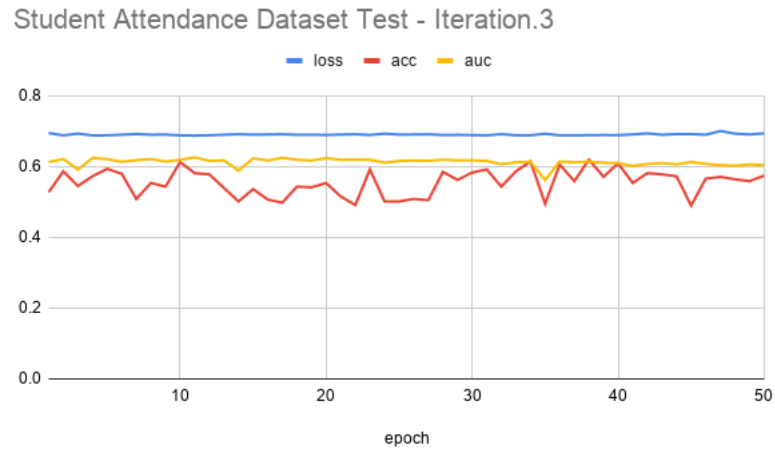


Figure B.9. DeepLinker – Student Attendance Dataset – Test – Iteration.8

Table B.4. DeepLinker-ESG Email Dataset Iteration Best Results

Iteration	DeepLinker-ESG – Email Dataset								
	Training			Validation			Test		
	loss	acc	auc	loss	acc	auc	loss	acc	auc
1	0.662	0.635	0.000	0.671	0.600	0.000	0.682	0.571	0.699
2	0.681	0.521	0.000	0.655	0.600	0.000	0.653	0.500	0.561
3	0.642	0.646	0.000	0.620	1.000	0.000	0.676	0.714	0.643
4	0.645	0.625	0.000	0.535	0.600	0.000	0.673	0.500	0.694
5	0.666	0.615	0.000	0.694	0.600	0.000	0.697	0.464	0.316
6	0.671	0.594	0.000	0.538	0.600	0.000	0.690	0.571	0.717
7	0.687	0.604	0.000	0.656	1.000	0.000	0.681	0.679	0.633
8	0.676	0.594	0.000	0.668	1.000	0.000	0.687	0.607	0.577
9	0.649	0.615	0.000	0.681	0.600	0.000	0.683	0.643	0.781
10	0.667	0.583	0.000	0.525	0.800	0.000	0.669	0.500	0.531
11	0.654	0.604	0.000	0.672	0.600	0.000	0.681	0.679	0.704
12	0.673	0.594	0.000	0.610	0.800	0.000	0.705	0.643	0.546
13	0.683	0.625	0.000	0.692	0.600	0.000	0.688	0.571	0.500
14	6.214	0.604	0.000	1.663	0.600	0.000	1.803	0.500	0.500
15	0.678	0.573	0.000	0.644	0.800	0.000	0.674	0.607	0.668
16	0.677	0.573	0.000	0.596	0.800	0.000	0.629	0.821	0.883
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Table B.4. (cont.)									
17	0.687	0.552	0.000	0.687	0.600	0.000	0.692	0.571	0.592
18	0.673	0.552	0.000	0.676	0.600	0.000	0.693	0.571	0.541
19	0.673	0.583	0.000	0.669	0.800	0.000	0.693	0.714	0.612
20	0.673	0.604	0.000	0.678	1.000	0.000	0.691	0.750	0.684
21	0.690	0.594	0.000	0.692	0.800	0.000	0.680	0.607	0.546
22	0.663	0.594	0.000	0.605	0.600	0.000	0.683	0.607	0.556
23	0.674	0.567	0.000	0.689	0.719	0.000	0.645	0.708	0.761
24	0.747	0.563	0.000	0.623	0.750	0.000	0.687	0.656	0.653

Email Dataset Training Performance - Iteration 8

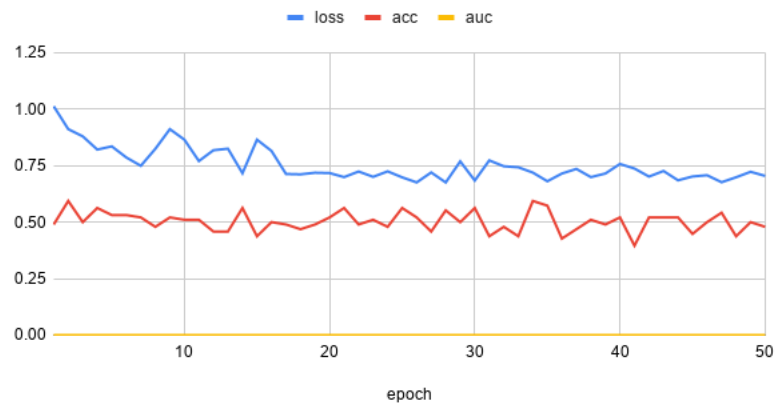


Figure B.10. DeepLinker - Email Dataset – Training – Iteration.8

Email Dataset Validation Performance - Iteration 8

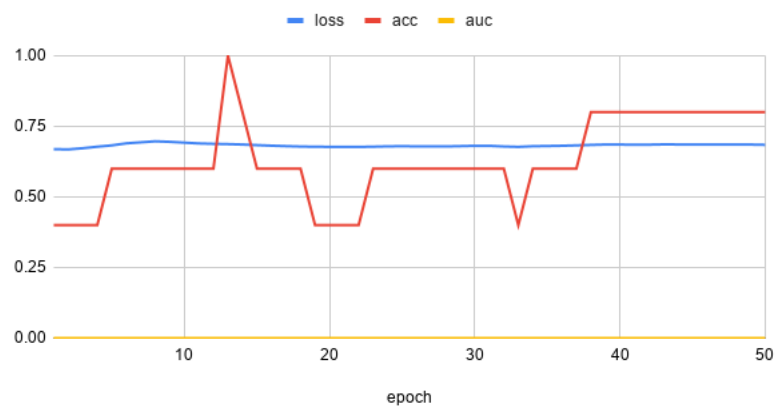


Figure B.11. DeepLinker - Email Dataset – Validation – Iteration.8



Figure B.12. DeepLinker - Email Dataset – Test – Iteration.8