APPENDIX B: CONSISTENCY SCORES OF THE FEATURES

Node and edge features of all the datasets together with their consistency scores c_j are shown in Tables 1 to 8.

Table 1. Consistency scores of the features of IoS nodes.

Feature Name	tn_j	ta_j	fn_j	fa_j	c_j
ChildLnameMatchFatherLname	16431	213	416	553	0.70
ChildLnameMatchMotherLname	16431	213	416	553	0.70
FatherOccPresent	16434	216	413	550	0.69
FatherFnamePresent	16441	217	406	549	0.69
FatherLnamePresent	16444	218	403	548	0.69
.....	...	...	...	...	...
CommonDoBPopulation	6064	238	10783	528	0.05
AddressPresent	16679	724	168	42	0.05
CommonDoBParish	3847	161	13000	605	0.02
MotherFnamePresent	16846	757	1	9	0.01
MotherMnamePresent	16843	759	4	7	0.01
PrenupPregnancy	16823	762	24	4	0.00
CommonParishPopulation	6704	305	10143	461	0.00

Table 2. Consistency scores of the features of IoS edges.

Feature Name	tn_j	ta_j	fn_j	fa_j	c_j
SameFnameMother	40391	225	432	364	0.61
SameParish	37088	185	3735	404	0.60
SameAddress	28720	94	12103	495	0.54
SameDoM	19723	53	21100	536	0.39
SameOccFather	23478	142	17345	447	0.33
...	...	...	...	...	...
SameLnameMother	40823	480	0	109	0.19
SameLnameFather	40823	480	0	109	0.19
SameFnameFather	40823	535	0	54	0.09
SameFname	1369	52	39454	537	0.05
SameDoB	196	1	40627	588	0.00

Table 3. Consistency scores of the features of Israel nodes.

Feature Name	tn_j	ta_j	fn_j	fa_j	c_j
HighAgeAbove60Count	120	17	12	98	0.76
HighGotShortBreathCount	106	9	26	106	0.73
HighContWithConfCaseCount	100	5	32	110	0.71
HighGotSoreThroatCount	98	5	34	110	0.70
HighGotFeverCount	97	7	35	108	0.67
HighGotHeadAcheCount	94	5	38	110	0.66
HighCoronaPosCount	88	5	44	110	0.62
HighGotCoughCount	53	7	79	108	0.34
HighMalesThanFemales	48	4	84	111	0.33
HighAcqOverseasCount	34	10	98	105	0.17

Table 4. Consistency scores of the features of Israel temporal edges.

Feature Name	tn_j	ta_j	fn_j	fa_j	c_j
IncGotFeverCount	12	6	0	17	0.74
IncGotHeadAcheCount	12	6	0	17	0.74
IncCoronaPosCount	12	6	0	17	0.74
IncGotSoreThroatCount	12	7	0	16	0.70
IncGotCoughCount	12	7	0	16	0.70
IncAgeAbove60Count	12	7	0	16	0.70
IncContWithConfCaseCount	12	7	0	16	0.70
IncMalesThanFemales	9	3	3	20	0.62
IncAcqOverseasCount	11	7	1	16	0.61
IncGotShortBreathCount	12	10	0	13	0.56

Table 5. Consistency scores of the features of QLD nodes.

Feature Name	tn_j	ta_j	fn_j	fa_j	c_j
HighYoungAgedCount	1600	28	1141	503	0.53
HighMalesThanFemales	1374	19	1367	512	0.47
HighOldAgedCount	1344	33	1397	498	0.43
HighPatientCount	928	12	1813	519	0.32
HighOverseasAcquiredCount	992	30	1749	501	0.31
...	...	...	...	...	...
HighLocalAcqUnidentInterstateTravelCount	145	42	2596	489	0.03
HighDeceasedCount	325	50	2416	481	0.02
HighAdmittedICUCount	36	15	2705	516	0.02
HighVentilatedCount	27	12	2714	519	0.01
HighUnderInvestigationCount	125	26	2616	505	0.00

Table 6. Consistency scores of the features of QLD temporal edges.

Feature Name	tn_j	ta_j	fn_j	fa_j	c_j
HighIndigenousCount	2052	452	126	378	0.40
HighPatientCount	1643	302	535	528	0.39
HighOverseasAcqCount	1548	360	630	470	0.28
HighMalesThanFemales	1590	376	588	454	0.28
HighDeceasedCount	2119	590	59	240	0.26
HighLocalUnidenInterTravCount	2178	655	0	175	0.21
HighUnderInvestCount	2178	689	0	141	0.17
HighLocalAcqKnownCount	2132	680	46	150	0.16
HighICUCount	2178	781	0	49	0.06
HighVentilatedCount	2178	793	0	37	0.05
HighHospitalisedCount	136	22	2042	808	0.04

Table 7. Consistency scores of the features of QLD spatial edges.

Feature Name	tn_j	ta_j	fn_j	fa_j	c_j
HighVentilatedCount	305567	140	3892	512	0.77
HighICUCount	304490	142	4969	510	0.77
HighDeceasedCount	273334	115	36125	537	0.71
HighLocalAcqKnownCount	283669	238	25790	414	0.55
HighPatientCount	179574	44	129885	608	0.51
HighMalesThanFemales	190395	69	119064	583	0.51
HighUnderInvestCount	293904	300	15555	352	0.49
HighLocalUnidenInterTravCount	291981	315	17478	337	0.46
HighIndigenousCount	249141	227	60318	425	0.46
HighOverseasAcqCount	182725	94	126734	558	0.45
HighHospitalizedCount	16326	6	293133	646	0.04

Table 8. Consistency scores of the features of QLD temporal and spatial edges.

Feature Name	tn_j	ta_j	fn_j	fa_j	c_j
HighDeceasedCount	547676	179	67716	944	0.73
HighUnderInvestCount	585976	342	29416	781	0.65
HighLocalUnidenInterTravCount	579397	357	35995	766	0.62
HighVentilatedCount	608222	429	7170	694	0.61
HighICUCount	605833	434	9559	689	0.60
HighPatientCount	372734	43	242658	1080	0.57
HighMalesThanFemales	388069	81	227323	1042	0.56
HighIndigenousCount	502601	330	112791	793	0.52
HighOverseasAcqCount	374904	124	240488	999	0.50
HighLocalAcqKnownCount	567540	505	47852	618	0.47
HighHospitalisedCount	37178	5	578214	1118	0.06