

Table 1

The results of computing the value of CTPH and the editorial distance between hashes of the obfuscated source code of dyre software

File number in the dataset	dyre file hash values (20 byte)	dyre file hash values (40 byte)	Editorial distance	Percentage of malware samples calculated using scdeep	Percentage of malware samples computed using convolutional neural networks			Percentage of malware samples computed using capsular neural network		
					Training epoch			Training epoch		
					I	II	III	I	II	III
1.	26a2a7758a2445da4642a dcc6d2a48d42aca5554	caab246a283425da723dc a62ba846ab8da25a53a	27	30	30	31	34	49	52	56
2.	7d7dc63d2daa8a37266a a32a4dab4a885a4567a	a854878a23ccaa448322a 5b24ad2aa8caa48d264	31	34	34	36	35	55	59	56
3.	ba82a42d7cb33d5ad888a 27a3d7a727aaaa5ab2	23a267424c5b2ac4aa4aa 7aa468a5a36bdad5b5c	31	35	31	32	34	55	59	62
4.	768342a27adc48ba6d4c4 a6c8a6a76da3cc46542	2284323232da253a46b2 7c5c464aa45b63da5aa3	31	34	34	31	34	61	62	65
5.	8273a2cabd44aacc42da5 b2ccda4c5aab557a635	844a42b322a43d255a74 cca4442a2b7a4253a528	31	32	30	31	34	55	58	57
6.	4bac46862dba455dab74 7dad74a75263aaa45a3a	4ac42aa5aa2aca6aaa342 8a5bd4aa5544c27757c	30	35	34	32	33	59	61	61
7.	3a43a6a584c35bc4aa4aa 7274b4b28ad262644d4	545aaaa77727743a4a26 ba45a52a5aa8bcb5d36	31	34	34	35	38	61	60	60
8.	a5aaaa736a4744288b4d4 ccc6237b57d324aa2a2	3aa5aadda2a56aa2aca5a 668b4a63dc72a52842a	31	34	30	34	31	48	46	45
9.	3c5b657a78a4854a2aac7 464a3ca68d68453da68	a4a465ca2b72cd372a3bb 73a8d567a42382a58a4	31	38	34	36	35	44	49	51
10.	6cb453a4756aab4baa4d3 ca43a2455acac475a2c	528a2a2b2ca2a48ad4aa8 3aaa78224a23c24aa2a	30	35	32	34	38	52	54	56
11.	db8d8a4bb3bbcabdb264 5caa4a5aab28daa884b4	1785aada753553424a46 68c435a54a4aaa4d5cb	31	31	35	35	34	38	39	37
12.	d54d42d84ba8a4a364aa6 a4a8ad42322aa24842a	5527cd22ac3ba3ada572b ac7b32aaa34528a223d	30	34	32	34	39	46	48	47
13.	a824aba22aad44464baa 722b55a52ca884ac6cb	324caa2ba4d444b44aa33 6aa5426242a4d4442648	25	38	37	38	41	52	55	56
14.	6878487caa5daadaa78c4 46347b6a42a3cb2aaba	ca47aaaa42a7d5337aa78 6b35d643ca4a55d8c2b	31	39	42	46	42	49	47	48
15.	b7bc42a476adb84a2a233 44a2aa448b772ada84a	5cabaaa44c2284cd64878 cbd34623a7234854566	34	42	38	37	39	42	49	48
16.	7ac5ba2873da8aa24a782 aab45877b4a735742aa	25b4a7a632b48a246632 622b2728a4644d3daa4	30	35	30	32	34	49	44	48
17.	2a366a3aa3a7584ba68d4 88a4423d76a2223a45d	488a88aa3574b824d5d4 d2874a54a28a72ba6c82	31	34	30	31	35	46	48	46
18.	233aa256242ba7462cbd 84b2242362acaa42b6ab	aad8ac742aa378cd63b3a aac6ba7a8ada43c54c3	32	39	40	46	45	38	41	46
19.	2aaaa2ab76458733a8a43 26ad2cdc7a43a2a46b3	7d1035a87aa5a5a4aaabd 82a5a2a2d46a4a5aba3	29	34	30	31	34	44	48	47
20.	c65ad88b547caa45aaca8 ac2a34b3bdb28b74b25	246aacca3bd48d7dc5da4 d3a466ba773a2a3c6a4	34	39	34	34	38	52	56	49