

**Tabld 3**

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

File number in the dataset	grum file hash values (20 byte)	grum file hash values (256 byte)	Editorial distance	Percentage of malware samples calculated using <b>scdeep</b>	Percentage of malware samples computed using convolutional neural networks			Percentage of malware samples computed using capsular neural network		
					Training epoch			Training epoch		
					I	II				
1.	f33547927274fbf3dfbf9f54fcf45b72c707fc3b	7320828c9753b2f9848dcbc45d354423cb22fc48	32	34	39	37	38	30	32	31
2.	4477c77cf84f8474b97c35c0943535558748fb94	f02cf4f4f7c4c40c7d77d8c7f5a57c4cdc9448cb	33	37	41	44	46	35	33	31
3.	7320828c9753b2f9848dcbc45d354423cb22fc48	274fcbfcf48b4d7f4c7bc3d78f8d5f250d7478c2	36	42	49	51	52	39	39	37
4.	87d084423f59c5f75592304d07c4f23da59cd45c	732a5355575ccc05fbc47dfbf4bf20857209579c	33	34	41	42	41	30	32	32
5.	c589bd7f40cfb4449338d57c08d337784874479f	7c93542dc4247454d547f755b89f49cbc0774d72	34	39	48	49	51	40	41	43
6.	0f80f7cf3c47d24fc9f7b20bbc77cc47f5230fc8	b3c0730cf3f50c734405c74c7c877fdb92820cf9	32	34	39	38	38	30	29	28
7.	a53547927274fbf3dfbf9f54fc7238cbc707fc3b	fc74c2cc3f572727a5fd7f797890b558448b38773	35	44	51	55	54	40	41	41
8.	f44f9324c94fb748fbbdc3cfdc3004348c240554	f4cc2dfc4d7494f9cf0fbd9d784f8f7c0bd4bdc7	33	41	54	56	55	34	37	36
9.	f7f704cfbf475df58f7c4449722f4435b9330fb9	38f3470b2a5937272790c4483f38b498bf9b4ccf	33	32	41	42	41	28	29	27
10.	d355948f39bfbfb357df2493073382fb2c327f49	b7470cfc0b295cf774377d48a543cc27b27fb347	33	42	55	54	56	39	37	38
11.	80b7fd2bdd48a5ccc747b427d9c8047d0957c437	7f4f45f993f772cd3fc74d7f3c9945b9473f7770	33	41	52	53	55	39	37	38
12.	042085d903fcdca47247f7cf03c7d375f4272db8d8	2cd7890b3b37c24df8492dd4287b8ccb7c427308	33	42	39	41	42	30	30	31
13.	d90cd7f38ccc4247bf3537fcb773f35377f8c922	0b844d72df8b87f4f83b9d4f3885984f59474dd3	36	48	55	58	57	48	47	48
14.	9ccf97c7f200d504f82d8bf0fb4cfca5c83c79f7	dfd4302d40a52553493b3d244a5844f20a593285	37	51	59	58	61	44	44	49
15.	79d394988d5b7f484fc33c94733f93d5dc407c	45d3554c9474a5879c5f5d95747c7dfca544ccbd	32	41	45	48	49	52	56	54
16.	7c52f5ccccf970cc50277f3c0b794743f28fd740b	28d478c4b703c74945f4bc247757505420f5f708	33	36	42	46	48	31	30	31
17.	2d37a5d8cc494420cc47c4575cc94c3b207595bc	48437c7734474cc08c3bc37bf7c9dc027f9b2cc5	30	34	42	42	48	29	28	29
18.	50c09857c94dcb5fd05710b227d32245cc824fc7	f370b7383753f54bc79a5243500472d7355b75f0	35	39	44	49	48	30	31	34
19.	8d0d55c8c249f7dfc7c47f870784cbf43c49704	5048827b9a53dc9c8472453c957df7454d04490f	32	39	41	42	43	31	35	34
20.	309fc53f7bdfdf4f894c5fb47f039c2ddf793753	74f052045fb7497c5b37805d97cb8cdd5f27cf44	32	36	30	31	32	30	29	29