

Table 8

The results of computing the value of mean shift between hashes of the obfuscated and source code malware

File number in the dataset	Source code hash values	Obfuscated source code hash values	Percentage of malware samples computed using only convolutional neural networks			Percentage of malware samples computed using mean shift method in convolutional neural networks		
			Training epoch			Training epoch		
			I	II	III	I	II	III
1.	cb39a2f8b7c7872b8b2f839a7a239b78e5b87fb8	fb7ce5a7a17839fa7c7bf278e5fab27af39392af	30	34	33	49	45	44
2.	bac7baf87a139b7a2e5abaffb2f7a7ff397ca872	f8cff27888fffcfffbbe5bfabf39787f87e539b8a	30	34	39	49	51	53
3.	ff7c7f2fa3972f392b7fb3939b39afca7cc7a1a	e5f39392e5ab87a27ff397ab7afe5f7a7be522c7	31	35	34	55	59	51
4.	7ca7bfbe57b8ff39cb7c7fe5a7bf7ffabe5239e5	cfa7ba7a1a8e5fff8ce57a8a2fe587fc27e5af72	34	35	33	45	49	55
5.	7fbf7a2397a7ccb397acaca7ba2a88f7bf8227af	ba2a1e5cb8be5139e5bfe5a7e5a8baf39a17bab7	37	34	35	45	48	47
6.	b7f7c39a3939787b8a7f7fcb7ccfe528fcf7e5	7a87cff7f3978fb7bafef72be57a39e5ba239ba7	42	45	44	59	54	55
7.	fab82e5faf7faf7e5e5af7afab2397b39e539bca	8f8393939b2ab39fff7ab397c8bafabaf878bcbf	34	38	39	45	49	52
8.	b2b39ba8fffb87f3922bbff722cb87e58ba7af8b	a1a278af72bf2e527af27b2ace57f27b8e517cfa	45	48	44	55	59	52
9.	a7cc8a88cb2afce5a7faa7ce5b87afb7c28ac7ac	78a839a2fbfbca839ffbafb39ce51f39e5a7cffa	49	48	42	51	53	54
10.	f39a7e5acb7f7ab27cab392ba27be5fb727fbf7f	7f239ace539a39e5a8ff7a39cc7e5c397fa72f39	30	31	30	49	52	53
11.	b7aba7a78a7fa39f7f887b7aff27cba39be517ba	b8bafa8fffe5ff2fca2ab77e5b82fe5f878f8a7f	29	34	38	52	54	59
12.	b39ff7287a1b7ca1afca2397ff39bfff7cf397a	bc727e5ffab7caf7ca7f7fa8afa8e5fffb39b72f	39	42	45	55	59	52
13.	39fafa1bf39ab87878ff8f7af39a8b3978face5f	afb7baff7a8af839fcff78a27b7f8af7f2b7e57a	30	34	35	45	48	52
14.	faf7f7a7e5a7fcc39e5a39f7bcbafe5ab7ff39ab	f7f7bf72ff87cafe517ba239fa2e5fb7b7b78bfbf	35	38	34	48	54	55
15.	c7b239bfb7fa392af87a72e5cab8f7af27bca7e5	3939787e5afb2c7f87fa7e53939b7bfc8f39f7f7	30	32	30	49	51	55
16.	cba3927a28727ffe587a1bf2a2f7a7fe5f39ab82	a7a87e5afff39f27bfaf77fe5839acfa7afa7a39	30	31	32	48	48	55
17.	7ff7f7fbac7fa39abcba7a72ab7fa1727aff7fab	e58be5ca39f82f39a39b7fbffff7b727ab87e539	30	31	35	49	52	57
18.	2afb2fffa7a7c87ac8fbfff7fc88be57baba3939	f3939a7afafe5e5e5af78a78a2acfa787bafffb7	30	34	35	49	51	52
19.	afe57f8ffcb2c7a2bfe5b7afa87f078a87e512ab	88f782fbfe57a8bab7a39c7e51a39cb7a7ffab87	39	35	34	49	55	58
20.	7fafa397fcf839ffa87b77a7ba7cf2afff39a72b	1358fe5cf2a72a87af7fa7a78ca2e5abff753c7b	31	35	34	55	58	59