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.	cbfe5208bfcd87268b20 8ef9f52ed6e89a68e0b8	d6ec78ed6bf87df9dce6 d2f8eeda62d5d7fde2af	37	38	34	30	29	29
2.	b5cd6ed87bbe7bf525e5 6500b2d79dffe7fc98d2	d8cd02d8a8d00c000bae bfe607fd8ff8ea5fe68a	47	49	45	37	38	37
3.	0decf02d5edd2ded26d dbedde6ffafcfafccd665	ae0feee29ee68f927f0d7 d96d5de5079d69e22cd	44	48	52	49	44	41
4.	fc55606e9db8ffdfc6fc f09e5d60e00565e27d9e	cf9fb5dbbe8e90fd8ca5 7e892dea8dfc2eaea072	59	62	60	50	51	52
5.	fdbfee2fedaecc6d7d5c 5caeba2e880eb0822d50	b5266aacb8babbd75eb d595deaa86edddbbf656e	19	22	21	19	17	17
6.	6ed7cef5fdde78e6857f 7dcbe7ccf9528fca0d9a	f98dcdf707fd806f6efaa 72659ded7eeba27fbed	56	59	61	47	48	48
7.	f568299090ef9de555ae 0fa0a62e77bfd5ae7bce	8f8edee77b2ebdedf0d7 56eddc8b90b5f8f86c6f	53	54	59	44	47	43
8.	b26edbe8f0f687dde226 600d22c68daa8ba7ed86	6652e89df26f29a2def2f b2ec5efd2db896bfcf5	49	52	51	43	48	44
9.	57cc8988c625fc55ed0a adc9968eafbec28acdac	9958ffe2f6dbc58d7dfb 9fbedceb60d7e99ecf05	48	49	52	37	38	34
10.	0ff57aeacbdd7a62fc9b f72ba27b95dbf2ddb07d	7d2dd5c9edfe7e9598d0 7577ccea5cdfd05e2fed	51	53	54	55	59	52
11.	679bee5d8a7f977ddf88 f6daf027cba7db966fb9	6865f58f0fe5df2fc52ebe daab82f5ad8e8d8eef	44	49	47	39	37	34
12.	b7d00d287b66fc6b5dca 2fefdd7f0b0dfecfde79	6ce2da9dda6ec9ddcefd 709850e85e0ffbef6e20	59	55	52	44	42	40
13.	fe0e06bb0ede68d8f8fd 80d50e79867df805c590	adbdbe0ffe890877dcdfe 852d67f8e0e02b7e9de	65	66	68	60	57	58
14.	5efff7aeae5f0ccd755e df0ebc6e05aeb70df756	0e0ebdd20d8ec5deb6fb 52fede29906e6fbe8bdf	62	61	66	58	57	56
15.	cdb2de60bfdefe2a08ee d259c568dd502ebc9e5a	feef78d95adb2ced8d0e 7eafefe6d60c8dfd0eff	52	57	56	38	42	42
16.	cb5ef27528f2fdfa98fb6 bf2a20feff950f7eb82	a7a8faaef0ddf02fbd5de fde587facd57e097adf	59	54	59	48	49	45
17.	7ddfd7fbacdd57f56cb5 75d2967f6bf2d5ffe056	a9865ec5fff820ef9ddb f0bddfdf672f568fee7e	42	48	46	30	31	34
18.	290b20ffade7c8e5c8d6 bddfdc88be9d6ebe7f7e	0e7eeeda0edae5e5eaf e89d8e2ec05f8eb50d0be	31	34	36	27	27	29
19.	5055f08fdc62cd526055b faf987dde558fab62a6	880d82d6deede8ba6e9dd cd9b65dfcb7ee00968f	62	62	61	55	50	51
20.	ed9f9ef7dc08eedf98fbd dad657cf25fffe75f2b	a9ad0a9cf2572e8fade fa7eccce2555b009eec7b	42	46	47	42	49	52