# Supplementary Material of CertPri

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## A CENTER POSITION OF DEFINITION 1

To illustrate the center position of classification model and regression model in **Definition 1**, we draw a one-dimensional center position curve, where the x-axis is the model prediction output and the y-axis is the corresponding class center position. In Figure A.1, the baseline represents the y = x line.

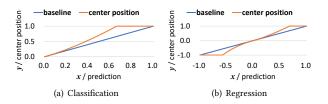


Figure A.1: Center position visualization of classification and regression in Definition 1.

#### B MORE DETAILS ABOUT CERTPRI

## **B.1** Proof of Theorem 2

**Theorem 2** (Formal guarantee on lower bound  $\gamma_L$  of inverse perturbation for regression model). Let  $\mathbf{x}_0 \in \mathbb{R}^{d_1}$  and  $f^R : \mathbb{R}^{d_1} \to \mathbb{R}^{d_2}$  be a regression model with continuously differentiable components. For all  $\boldsymbol{\mu} \in \mathbb{R}^{d_1}$  with  $||\boldsymbol{\mu}||_p \leq \min \frac{\sum_i |f_{i,+}^R(\mathbf{x}_0) - f_i^R(\mathbf{x}_0)|}{d_2 \times L_q^r}$ ,  $\frac{1}{d_2} \sum |r(\mathbf{x}_0 + \boldsymbol{\mu}) - r(\mathbf{x}_0)| \leq \delta$  holds with  $\frac{1}{p} + \frac{1}{q} = 1$ ,  $1 \leq \{p, q\} \leq \infty$  and  $L_q^r$  is the Lipschitz constant for the function  $\frac{\sum_i |f_{i,+}^R(\mathbf{x}) - f_i^R(\mathbf{x})|}{d_2}$  in  $l_p$  norm. In other word,  $\gamma_L = \min \frac{\sum_i |f_{i,+}^R(\mathbf{x}_0) - f_i^R(\mathbf{x}_0)|}{d_2 \times L_q^r}$  is a lower bound of minimum inverse perturbation.

**Proof.** According to Lemma 1, the assumption that the function  $h(\mathbf{x}) := \frac{\sum_i |f_{i,+}^R(\mathbf{x}) - f_i^R(\mathbf{x})|}{d_2}$  is Lipschitz continuous with Lipschitz constant  $L_q^r$  gives:

$$|h(a) - h(b)| \le L_q^r ||a - b||_p.$$
 (B.1)

Let  $a = x_0 + \mu$  and  $b = x_0$ , we get:

$$|h(x_0 + \mu) - h(x_0)| \le L_q^r ||\mu||_p,$$
 (B.2)

which can be rearranged as follows:

$$-L_q^r||\mu||_p \le h(x_0 + \mu) - h(x_0) \le L_q^r||\mu||_p,$$
  

$$\Rightarrow h(x_0) - L_q^r||\mu||_p \le h(x_0 + \mu) \le h(x_0) + L_q^r||\mu||_p.$$
(B.3)

When  $h(x_0 + \mu) = 0$ , the inversely perturbed test input is moved to the regression center. As represented by Eq. (B.3),  $h(x_0) - L_q^r ||\mu||_p$  is the lower bound of  $h(x_0 + \mu)$ . If  $h(x_0) - L_q^r ||\mu||_p \ge 0$  for sufficiently small inverse perturbation  $||\mu||_p$ , the inversely perturbed test input cannot reach the regression center, i.e.,

$$|h(\mathbf{x}_{0}) - L_{q}^{r}||\mu||_{p} \ge 0,$$

$$\Rightarrow ||\mu||_{p} \le \frac{h(\mathbf{x}_{0})}{L_{q}^{r}},$$

$$\Rightarrow ||\mu||_{p} \le \frac{\sum_{i} |f_{i,+}^{R}(\mathbf{x}_{0}) - f_{i}^{R}(\mathbf{x}_{0})|}{d_{2} \times L_{q}^{c}}.$$
(B.4)

#### **B.2** Formal Guarantee for ReLU

**Lemma 2** (Formal guarantee on  $\gamma_L$  for ReLU activation). Let  $h(x) = \sigma(W_l \sigma(W_{l-1}...\sigma(W_l x)))$  be a l-layer neural network with ReLU activation  $\sigma(x) = \max(0, x)$ , where  $W_i$  is the weights of the i-th layer. Here we do not consider bias terms due to their constant nature. Let  $D \subset \mathbb{R}^d$  be a convex bounded closed set, then Equation (1) in the manuscript holds with  $L_q = \sup_{x \in D} \{|\sup_{||e||_{p=1}} h'(x;e)|\}$  where  $h'(x;e) := \lim_{\varepsilon \to 0^+} \frac{h(x+\varepsilon e)-h(x)}{\varepsilon}$  is the one-sided directional derivative, then **Theorems 1** and **2** still hold.

derivative, then **Theorems 1** and **2** still hold. **Proof**. For any  $\{a,b\} \in D$ , let  $e = \frac{b-a}{||b-a||_p}$  be the unit vector pointing from a to b, and  $r = ||a-b||_p$  is a  $l_p$ -norm. Define univariate function  $\varphi(\varepsilon) = h(a+\varepsilon e)$ , then  $\varphi(0) = h(a)$  and  $\varphi(r) = h(b)$  and observe that  $h'(a+\varepsilon e;e)$  and  $h'(a+\varepsilon e;-e)$  are the right and left derivatives of  $\varphi(\varepsilon)$ , we have

$$\varphi'(\varepsilon) = \begin{cases} h'(\boldsymbol{a} + \varepsilon \boldsymbol{e}; \boldsymbol{e}) \le L_q & \text{if } h'(\boldsymbol{a} + \varepsilon \boldsymbol{e}; \boldsymbol{e}) = h'(\boldsymbol{a} + \varepsilon \boldsymbol{e}; -\boldsymbol{e}) \\ \text{None} & \text{otherwise} \end{cases}$$
(B.5)

For a neural network with ReLU activation, there can be at most finite number of points in  $\varepsilon \in (0,r)$  such that  $\varphi'(\varepsilon)$  is none. This can be shown because each discontinuous  $\varepsilon$  is caused by some ReLU activation, and there are only finite combinations. Let  $0=\varepsilon_0<\varepsilon_1<\ldots<\varepsilon_{k-1}<\varepsilon_k=1$  be those points. Then, using the fundamental theorem of calculus on each interval separately, there exists  $\overline{\varepsilon_i}\in(\varepsilon_i,\varepsilon_{i-1})$  for each i such that

$$\begin{split} \varphi(r) - \varphi(0) &\leq \sum_{i=0}^{k} |\varphi(\varepsilon_i) - \varphi(\varepsilon_{i-1})| \leq \sum_{i=0}^{k} |\varphi'(\overline{\varepsilon_i})(\varepsilon_i - \varepsilon_{i-1})| \\ &\leq \sum_{i=0}^{k} L_q |\varepsilon_i - \varepsilon_{i-1}|_p = L_q ||\boldsymbol{b} - \boldsymbol{a}||_p, \end{split} \tag{B.6}$$

i.e.,  $h(b) - h(a) \le L_q ||b-a||_p$ . Therefore, **Theorems 1** and **2** still hold.

## B.3 Generalized Extreme Value Theory

Here we give the PDF and CDF of the three extreme value distributions.

**Gumbel** (Type I). The PDF and CDF with  $\xi = 0$  are as follows:

$$g_{\xi}(z) = \exp(-(z + \exp(-z))),$$
  
 $G_{\xi}(z) = \exp(-\exp(-z)).$  (B.7)

**Fréchet** (Type II). The PDF and CDF with  $\xi > 0$  are as follows:

$$g_{\xi}(z) = \begin{cases} \exp(-(1+\xi z)^{-\frac{1}{\xi}}) \times (1+\xi z)^{-\frac{1+\xi}{\xi}}, & z > -\frac{1}{\xi} \\ 0, & z \le -\frac{1}{\xi} \end{cases}$$

$$G_{\xi}(z) = \begin{cases} \exp(-(1+\xi z)^{-\frac{1}{\xi}}), & z > -\frac{1}{\xi} \\ 0, & z \le -\frac{1}{\xi} \end{cases}$$
(B.)

**Weibull** (Type III). The PDF and CDF with  $\xi$  < 0 are as follows:

$$g_{\xi}(z) = \begin{cases} \exp(-(1+\xi z)^{-\frac{1}{\xi}}) \times (1+\xi z)^{-\frac{1+\xi}{\xi}}, & z \le -\frac{1}{\xi} \\ 0, & z > -\frac{1}{\xi} \end{cases}$$

$$G_{\xi}(z) = \begin{cases} \exp(-(1+\xi z)^{-\frac{1}{\xi}}), & z \le -\frac{1}{\xi} \\ 1, & z > -\frac{1}{\xi} \end{cases}$$
(B.9)

## **B.4** Prioritization in Black-box Scenarios

We can extend CertPri to a black-box scenario based on the gradient estimation. The gradient norm at line 6 in **Algorithm 1** is computed by back propagation, which requires internal details of the model. When we replace it with the gradient estimation (as shown in **Algorithm 2**), CertPri can be implemented in a black-box scenario. We conduct a preliminary study based on a small dataset, and find that T>5 for Algorithm 2 is effective in general. To guarantee CertPri's effectiveness in the black-box scenario, we follow the double-minimum strategy, i.e., T=10,  $\epsilon=0.005\max(x)$  for Algorithm 2

#### **Algorithm 2**: Gradient estimation in the black-box scenario. **Input**: A test input $x_0$ , a loss function $Loss(y_{true}, y_{pred})$ of f(x), iterations T, a small constant $\epsilon$ . **Output**: The estimated gradient norm $\hat{g}$ . 1 $\hat{g}_0 = 0$ , noise mean $u_n = 0$ , noise variance $\sigma_n = 1$ . For i = 1 : T do 3 Randomly sample Gaussian noise vector $n_i$ with $u_n$ and $\sigma_n$ in the same dimension as $x_0$ . $\begin{aligned} & \boldsymbol{x}_i^+ = \boldsymbol{x}_0 + \epsilon \times \boldsymbol{n}_i, & \boldsymbol{x}_i^- = \boldsymbol{x}_0 - \epsilon \times \boldsymbol{n}_i. \\ & l_i^+ = Loss\left(f(\boldsymbol{x}_0), f(\boldsymbol{x}_i^+)\right), & l_i^- = Loss\left(f(\boldsymbol{x}_0), f(\boldsymbol{x}_i^-)\right). \end{aligned}$ 4 5 $\hat{g}_i = \hat{g}_{i-1} + ||(l_i^+ - l_i^-) \times n_i||_q.$ 6 **End For** $\hat{g} = \frac{\hat{g}_i}{2\epsilon \times 7}$ 8

# C MORE EXPERIMENTAL RESULTS

#### C.1 Correlation of Robustness

To interpret the utility of robustness, taking adaptive attacks on ImageNet dataset as an example (ID: 22-24), we first calculate the Pearson correlation of empirical movement costs for adaptive attacked test inputs prioritized by different methods. Then we illustrate them as heatmaps shown in Figure C.1.

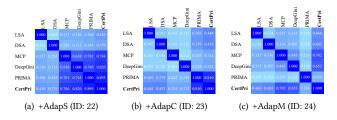


Figure C.1: Pearson correlation of empirical movement costs for adaptive attacked test inputs prioritized by different methods on ImageNet dataset.

## C.2 Guidance of CertPri

The evaluation results of accuracy improvement and robustness improvement for DNNs on CIFAR10 dataset are illustrated as boxplots shown in Figure C.2 and Figure C.3. In terms of performance, we sample original data prioritized at the front 1%, 5%, 10% and 20% in the training set. We set epoch=5 for retraining due to the small number of data. We compare the test accuracy. In terms of robustness, we sample adversarial data prioritized at the front 1%, 5%, 10% and 20% in the adversarial set. We mix the sampled data with the original training set, and set epoch=2 for retraining due to the large number of data. Repeat above operations 5 times.

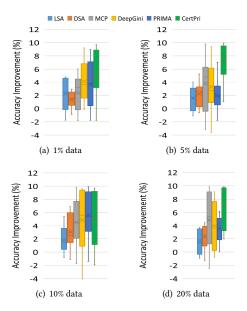


Figure C.2: The boxplots of accuracy improvement for different methods under first 1%, 5%, 10% and 20% data sampling.

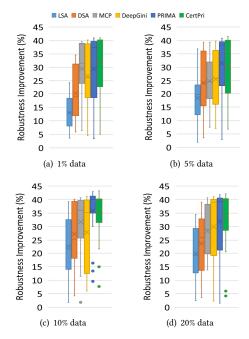


Figure C.3: The boxplots of robustness improvement for different methods under first 1%, 5%, 10% and 20% data sampling.

## D RAW DATA OF RAUC

we repeat the experiment 5 times and record about 9,000 raw data. We put the detailed comparison results for each subject of each repetition as follows, where "t/o" means time out, i.e., it cannot produce results after running for 24 hours; "n/a" means not applicable in theory, i.e., the number of test inputs is too small to calculate the corresponding RAUC value (ID: 39, 45, 46, 50), or the baseline cannot be applied in the regression task or the black-box scenario.

# D.1 Repeat 1st

D.1	Repeat	1st													
ID	Datasets	Models	Struc.	#Inputs	Types	Forms	Tas.	Sce.	Methods	RAUC-100		RAUC-300		RAUC-1000	RAUC-all
									LSA DSA	0.3921 0.3672	0.2955 0.3312	0.2537 0.3023	0.2433	0.2401 0.2684	0.6332 0.6380
									MCP	0.3690	0.3633	0.3023	0.2739	0.2684	0.8023
1	CIFAR10	ResNet50	CNN	10000	original	image	С	N+W	DeepGini	0.6587	0.6231	0.6073	0.5988	0.5820	0.8020
									PRIMA	0.8320	0.8043	0.7740	0.7712	0.7030	0.9320
									CertPri	0.8589	0.8233	0.8015	0.7545	0.7227	0.9213
									LSA DSA	n/a	n/a n/a	n/a	n/a n/a	n/a	n/a
									MCP	n/a 0.3690	0.3633	n/a 0.3547	0.4510	n/a 0.4410	n/a 0.8023
2	CIFAR10	ResNet50	CNN	10000	original	image	С	N+B	DeepGini	0.6587	0.6231	0.6073	0.5988	0.5820	0.8020
									PRIMA	0.4548	0.4389	0.4212	0.4028	0.4211	0.7055
									CertPri	0.8634	0.8023	0.8003	0.7423	0.7329	0.9023
									LSA DSA	0.7742 0.8230	0.7639	0.7310 0.8190	0.7050 0.8034	0.6832	0.7592
									MCP	0.8230	0.8215 0.8300	0.8190	0.8054	0.7723 0.7893	0.7477 0.6943
3	CIFAR10	ResNet50	CNN	10000	+BIM	image	С	N+W	DeepGini	0.9453	0.9478	0.9423	0.9433	0.9250	0.9023
									PRIMA	1.0000	1.0000	0.9980	0.9740	0.9587	0.9432
									CertPri	0.9920	0.9812	0.9897	0.9793	0.9705	0.9533
									LSA	0.8631	0.8235	0.8022	0.7832	0.7574	0.7629
									DSA MCP	0.8790 0.6340	0.8540 0.7560	0.8570 0.7450	0.8120 0.7469	0.7765 0.7380	0.7854 0.7945
4	CIFAR10	ResNet50	CNN	10000	+C&W	image	C	N+W	DeepGini	0.8770	0.7500	0.7430	0.8830	0.7380	0.7943
									PRIMA	1.0000	1.0000	0.9950	0.9470	0.9453	0.9760
									CertPri	1.0000	0.9756	0.9744	0.9637	0.9582	0.9799
									LSA	0.8234	0.8027	0.7855	0.7433	0.7580	0.7790
									DSA MCP	0.8450	0.8054	0.7948 0.8670	0.7739	0.7549	0.7693
5	CIFAR10	ResNet50	CNN	10000	FineFool	image	C	N+W	MCP DeepGini	0.8546 0.8985	0.8566 0.8944	0.8670	0.8405 0.8802	0.8399 0.8740	0.8492 0.8809
									PRIMA	0.9230	0.9377	0.9410	0.9406	0.9433	0.9462
L	<u>L</u>	<u>L_</u>	<u>L</u>						CertPri	0.9587	0.9644	0.9865	0.9803	0.9897	0.9874
									LSA	0.2479	0.1553	0.1259	0.1189	0.1270	0.3520
									DSA MCP	0.2318	0.1569	0.1892	0.1545	0.1065	0.3484
6	CIFAR10	ResNet50	CNN	10000	+AdapS	image	C	N+W	MCP DeepGini	0.2336 0.5400	0.2473 0.4778	0.2403 0.4724	0.3412 0.4838	0.3309 0.4585	0.6629 0.6604
									PRIMA	0.5532	0.5387	0.4832	0.5162	0.4051	0.6072
L	<u>L</u>	<u>L_</u>	<u>L</u>						CertPri	0.8578	0.8161	0.7978	0.7513	0.7181	0.9152
									LSA	0.3089	0.2143	0.1942	0.1950	0.1488	0.5466
									DSA	0.3082	0.2754	0.2493	0.2068	0.1933	0.5691
7	CIFAR10	ResNet50	CNN	10000	+AdapC	image	С	N+W	MCP DeepGini	0.1305 0.1566	0.1345 0.1418	0.1341 0.1432	0.1407 0.1854	0.1687 0.1584	0.2879 0.2962
									PRIMA	0.6095	0.5702	0.5600	0.1834	0.1384	0.6934
									CertPri	0.8536	0.8175	0.7959	0.7500	0.7175	0.9195
									LSA	0.2066	0.1116	0.1539	0.1082	0.1283	0.4780
									DSA	0.2048	0.1787	0.1225	0.1297	0.1154	0.4564
8	CIFAR10	ResNet50	CNN	10000	+AdapM	image	C	N+W	MCP DeepGini	0.2380 0.5371	0.2164 0.4880	0.2356 0.5051	0.3069 0.4931	0.3257 0.4341	0.6551
					_	_			PRIMA	0.3590	0.4880	0.3448	0.4931	0.3276	0.6735 0.4424
									CertPri	0.8530	0.8158	0.7960	0.7542	0.7165	0.9192
									LSA	0.4026	0.2870	0.2538	0.2606	0.2425	0.6342
									DSA	0.3582	0.3017	0.2961	0.2714	0.2584	0.6427
9	CIFAR10	VGG16	CNN	10000	original	image	C	N+W	MCP DeepGini	0.3472 0.6389	0.3844 0.6085	0.3634 0.6332	0.4296 0.5982	0.4608 0.5600	0.7809 0.8292
									PRIMA	0.8234	0.7882	0.7442	0.7413	0.7016	0.8292
									CertPri	0.8606	0.8465	0.7821	0.7486	0.7102	0.9178
									LSA	n/a	n/a	n/a	n/a	n/a	n/a
									DSA	n/a	n/a	n/a	n/a		n/a
10	CIFAR10	VGG16	CNN	10000	original	image	C	N+B	MCP DeepGini	0.3472 0.6389	0.3844 0.6085	0.3634 0.6332	0.4296 0.5982	0.4608 0.5600	0.7809 0.8292
									PRIMA	0.4683	0.4289	0.4423	0.4143	0.3982	0.6907
									CertPri	0.8781	0.7931	0.8047	0.7510	0.7113	0.8813
									LSA	0.7582	0.7374	0.7200	0.6764	0.7023	0.7786
									DSA	0.8266	0.7974	0.8429	0.7927	0.7794	0.7726
11	CIFAR10	VGG16	CNN	10000	+BIM	image	C	N+W	MCP DeepGini	0.8450 0.9753	0.8234 0.9689	0.8331 <b>0.9604</b>	0.7786 0.9395	0.7740 0.9361	0.6709 0.9014
									PRIMA	0.9753	0.9089	0.9536	0.9393	0.9301	0.9014
L	<u>L</u>	<u>L_</u>	<u>L</u>						CertPri	0.9694	0.9527	0.9177	0.9021	0.9497	0.9582
									LSA	0.8544	0.8459	0.8244	0.7867	0.7536	0.7834
									DSA	0.8791	0.8620	0.8478	0.7877	0.7997	0.7587
12	CIFAR10	VGG16	CNN	10000	+C&W	image	C	N+W	MCP DeepGini	0.6090 0.9065	0.7465 0.8964	0.7318 0.8842	0.7285 0.8749	0.7258 0.9129	0.7687 0.9008
									PRIMA	0.9003	0.8904	0.8842	0.8749	0.9129	0.9008
L	<u>L</u>	<u>L_</u>	<u>L</u>						CertPri	0.9349	0.9607	0.9900	0.9367	0.9592	0.9743
									LSA	0.8071	0.7952	0.7925	0.7709	0.7290	0.7507
									DSA	0.8290	0.8179	0.7925	0.7572	0.7770	0.7511
13	CIFAR10	VGG16	CNN	10000	FineFool	image	C	N+W	MCP DeepGini	0.8291 0.8770	0.8621 0.9055	0.8862 0.8741	0.8258 0.8654	0.8303 0.8469	0.8431 0.8865
									PRIMA	0.8770	0.9551	0.8741	0.8634	0.9254	0.8803
									CertPri	0.9488	0.9846	0.9733	0.9081	0.9851	0.9794
									LSA	0.2701	0.1401	0.1301	0.0893	0.1066	0.3466
									DSA	0.2133	0.1742	0.1890	0.1839	0.0881	0.3554
14	CIFAR10	VGG16	CNN	10000	+AdapS	image	C	N+W	MCP DeepGini	0.2377 0.5455	0.2426 0.4639	0.2364 0.4869	0.3547 0.4575	0.3569 0.4839	0.6538 0.6799
									PRIMA	0.5266	0.4639	0.4612	0.4373	0.4839	0.6072
L	<u>L</u>	<u>L</u>	<u>L</u>						CertPri	0.8642	0.8306	0.8184	0.7755	0.7353	0.8934
									LSA	0.3353	0.2167	0.2194	0.2012	0.1552	0.5402
									DSA	0.3229	0.2878	0.2528	0.2086	0.2043	0.5803
15	CIFAR10	VGG16	CNN	10000	+AdapC	image	C	N+W	MCP DeepGini	0.1044 0.1361	0.1543 0.1714	0.1532 0.1201	0.1184 0.1985	0.1427 0.1623	0.2856 0.2759
									PRIMA	0.6290	0.1714	0.1201	0.1983	0.1623	0.2739
Ì			<u> </u>	<u>L</u>					CertPri	0.8428	0.8076	0.7840	0.7402	0.7427	0.9279
						_			LSA	0.2340	0.1205	0.1569	0.1047	0.1084	0.4495

	1														
									DSA MCP	0.2091 0.2537	0.1643 0.2067	0.0986 0.2239	0.1242 0.2853	0.1084 0.3273	0.4778 0.6732
16	CIFAR10	VGG16	CNN	10000	+AdapM	image	C	N+W	DeepGini	0.5463	0.5132	0.4965	0.4841	0.4537	0.6755
									PRIMA	0.3775	0.3565	0.3690	0.3576	0.3060	0.4545
									CertPri	0.8657	0.7999	0.7736	0.7473	0.6884	0.9290
									LSA	0.3680	0.2993	0.2586	0.2215	0.2192	0.6370
									DSA	0.3399	0.3162	0.2780	0.2550	0.2749	0.6402
17	ImageNet	ResNet101	CNN	5000	original	image	C	N+W	MCP DeepGini	0.3494 0.6472	0.3708 0.6132	0.3345 0.5725	0.4357 0.5575	0.4399 0.5347	0.7942 0.7907
									PRIMA	0.7201	0.6981	0.3723	0.5925	0.5872	0.7870
									CertPri	0.7554	0.7599	0.6559	0.6381	0.6015	0.8326
									LSA	n/a		n/a	n/a	n/a	n/a
									DSA	n/a		n/a	n/a	n/a	n/a
10	I	DN -4101	CNN	5000	:-1		C	NI D	MCP	0.3494	0.3708	0.3345	0.4357	0.4399	0.7942
18	ImageNet	ResNet101	CNN	5000	original	image	С	N+B	DeepGini	0.6472	0.6132	0.5725	0.5575	0.5347	0.7907
									PRIMA	0.3747	0.5318	0.3912	0.3960	0.3888	0.5682
									CertPri	0.7511	0.7677	0.6561	0.6502	0.5876	0.8462
									LSA	0.6242	0.6139	0.5810	0.4550	0.4332	0.5092
									DSA MCP	0.5730 0.5744	0.5715 0.7100	0.5690 0.5557	0.5534 0.6854	0.5223 0.6693	0.4977 0.4143
19	ImageNet	ResNet101	CNN	5000	+BIM	image	C	N+W	DeepGini	0.8253	0.6678	0.8223	0.6633	0.6450	0.6223
									PRIMA	0.8388	0.7293	0.8980	0.6740	0.8587	0.6432
									CertPri	0.8420	0.8312	0.8397	0.9293	0.8205	0.9033
									LSA	0.6131	0.5735	0.6522	0.6332	0.6074	0.6129
									DSA	0.6290	0.7040	0.7070	0.5620	0.5265	0.5354
20	ImageNet	ResNet101	CNN	5000	+C&W	image	С	N+W	MCP	0.5140	0.6360	0.6250	0.4669	0.4580	0.6745
20	mageriet	resiverior	CITIT	3000	100011	mage		111.11	DeepGini	0.5970	0.5890	0.6112	0.6030	0.6070	0.7735
			1					ĺ	PRIMA	0.9232	0.8788	0.8058	0.8470	0.8453	0.6760
		1	1	1		1			CertPri LSA	0.9532 0.5734	0.9256 0.5527	0.8244 0.5355	0.8137 0.5933	0.8485 0.6080	<b>0.9299</b> 0.5290
			1					Ī	DSA	0.5734	0.5554	0.5355	0.5933	0.6080	0.5290
		L	L_			_		l <u>.</u>	MCP	0.5746	0.5766	0.7470	0.5605	0.5599	0.5692
21	ImageNet	ResNet101	CNN	5000	FineFool	image	C	N+W	DeepGini	0.7785	0.7744	0.6059	0.6002	0.5940	0.6009
			1					Ī	PRIMA	0.8230	0.8377	0.8410	0.8406	0.6433	0.6462
	<u></u>		<u> </u>					L_	CertPri	0.8387	0.9144	0.9365	0.8303	0.9397	0.9374
									LSA	0.2463	0.0754	0.1381	0.0323	0.1862	0.3190
			1					Ī	DSA	0.1576	0.1447	0.2594	0.1709	0.0576	0.3060
22	ImageNet	ResNet101	CNN	5000	+AdapS	image	С	N+W	MCP	0.2198	0.3140	0.3130	0.3563	0.4163	0.5954
	8				1	8			DeepGini PRIMA	0.5684 0.5064	0.5549 0.5192	0.4114 0.4118	0.3989 0.4834	0.3995 0.3365	0.7013 0.5054
									CertPri	0.3064	0.3192	0.4118	0.4834	0.3363	0.3034
									LSA	0.3072	0.2453	0.1687	0.2072	0.1234	0.5079
									DSA	0.3082	0.3212	0.2305	0.2328	0.2430	0.5266
22		D 31 1101	co D I	5000				37.337	MCP	0.0606	0.0952	0.1914	0.0288	0.1323	0.3452
23	ImageNet	ResNet101	CNN	5000	+AdapC	image	С	N+W	DeepGini	0.1448	0.0787	0.1461	0.1071	0.1938	0.2369
									PRIMA	0.6030	0.6042	0.6009	0.5317	0.4352	0.6850
									CertPri	0.8139	0.7955	0.7474	0.6944	0.6620	0.8562
									LSA	0.1875	0.1407	0.2033	0.0793	0.1096	0.4529
									DSA MCP	0.1549 0.2753	0.1500 0.2356	0.1263 0.1867	0.1286 0.2732	0.1491 0.3746	0.4894 0.6945
24	ImageNet	ResNet101	CNN	5000	+AdapM	image	C	N+W	DeepGini	0.2733	0.4823	0.1867	0.2732	0.3740	0.6405
									PRIMA	0.3329	0.3690	0.3349	0.3506	0.2984	0.4051
									CertPri	0.8105	0.7533	0.7101	0.6665	0.6583	0.8302
									LSA	0.3656	0.2946	0.2503	0.2305	0.2146	0.6594
									DSA	0.3174	0.3129	0.2982	0.2415	0.2688	0.6332
25	ImageNet	VGG19	CNN	5000	original	image	С	N+W	MCP	0.3253	0.3469	0.3198	0.4606	0.4530	0.7773
23	mageriet	1001)	CITIT	3000	originar	mage		111.11	DeepGini	0.6453	0.6247	0.5523	0.5417	0.5596	0.7672
									PRIMA	Out of Time			Out of Time		Out of Time
		-							CertPri LSA	0.7629 n/a	0.7606 n/a	0.6681 n/a	0.6596 n/a	0.6040 n/a	0.8338 n/a
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
							_		MCP	0.3253	0.3469	0.3198	0.4606	0.4530	0.7773
26	ImageNet	VGG19	CNN	5000	original	image	С	N+B	DeepGini	0.6453	0.6247	0.5523	0.5417	0.5596	0.7672
			1					ĺ	PRIMA	Out of Time					Out of Time
				ļ				<u> </u>	CertPri	0.7534	0.7594	0.6755	0.6442	0.5809	0.8709
			1					ĺ	LSA	0.6278	0.6020	0.5739	0.4797	0.4339	0.4919
			1					Ī	DSA MCP	0.5669 0.5722	0.5896 0.6964	0.5898 0.5700	0.5542 0.6924	0.5282 0.6469	0.4780 0.4176
27	ImageNet	VGG19	CNN	5000	+BIM	image	C	N+W	DeepGini	0.8027	0.6868	0.8072	0.6800	0.6229	0.6381
			1					Ī	PRIMA	Out of Time		Out of Time	Out of Time		Out of Time
			1					ĺ	CertPri	0.8612	0.8385	0.8528	0.9375	0.8384	0.8797
									LSA	0.5971	0.5845	0.6382	0.6515	0.6160	0.6265
			1					ĺ	DSA	0.6470	0.7250	0.6899	0.5674	0.5245	0.5338
28	ImageNet	VGG19	CNN	5000	+C&W	image	С	N+W	MCP	0.5005	0.6176	0.6018	0.4558	0.4352	0.6512
	3		1	2000		60	v		DeepGini	0.5777	0.5881	0.6127	0.5920	0.6201	0.7650
			1					Ī	PRIMA CertPri	Out of Time 0.9534	Out of Time 0.9251	Out of Time 0.8001	Out of Time 0.8176	Out of Time 0.8665	Out of Time 0.9066
		1	<b>†</b>	1		ł		l	LSA	0.5519	0.5640	0.5286	0.5859	0.6290	0.5140
			1					Ī	DSA	0.7011	0.5690	0.6658	0.6387	0.6268	0.5379
20	ImageNet	VGG19	CNN	5000	FineFool	ime	С	N+W	MCP	0.5632	0.5698	0.7590	0.5411	0.5599	0.5460
29	magenet	10019	CININ	3000	1 mcrool	image	C	14→ W	DeepGini	0.7705	0.7754	0.6134	0.5791	0.6030	0.5941
			1					ĺ	PRIMA	Out of Time	Out of Time		Out of Time		Out of Time
		1	-	1				<u> </u>	CertPri	0.8279	0.9281 0.0712	0.9390	0.8123	0.9444	<b>0.9343</b> 0.3126
			1					ĺ	DSA	0.2362 0.1699	0.0712	0.1424 0.2692	0.0432 0.1532	0.2068 0.0691	0.3126
		L	1			_		l _	MCP	0.1099	0.1272	0.2092	0.1332	0.4133	0.6015
20	ImageNet	VGG19	CNN	5000	+AdapS	image	C	N+W	DeepGini	0.5869	0.5453	0.4200	0.4079	0.4218	0.6861
30	1		1					Ī	PRIMA	Out of Time	Out of Time				Out of Time
30		1							CertPri	0.7299	0.8018	0.6774	0.5810	0.6686	0.8654
30									LSA	0.2890	0.2334	0.1722	0.2316	0.1140	0.4923
30															
30									DSA	0.3135	0.3185	0.2255	0.2558	0.2566	0.5460
	ImageNet	VGG19	CNN	5000	+AdapC	image	C	N+W	DSA MCP	0.3135 0.0467	0.3185 0.0921	0.2054	0.0115	0.1520	0.3364
	ImageNet	VGG19	CNN	5000	+AdapC	image	C	N+W	DSA MCP DeepGini	0.3135 0.0467 0.1226	0.3185 0.0921 0.0748	0.2054 0.1659	0.0115 0.1301	0.1520 0.2086	0.3364 0.2584
	ImageNet	VGG19	CNN	5000	+AdapC	image	С	N+W	DSA MCP	0.3135 0.0467	0.3185 0.0921	0.2054 0.1659	0.0115	0.1520 0.2086	0.3364

32	ImageNet	VGG19	CNN	5000	+AdapM	image	С	N+W	DSA MCP DeepGini PRIMA CertPri	0.1548 0.2781 0.5853 Out of Time 0.8031	0.1747 0.2122 0.4641 Out of Time <b>0.7666</b>	0.1248 0.2048 0.4885 Out of Time <b>0.7072</b>	0.1249 0.2882 0.4671 Out of Time <b>0.6424</b>	0.1365 0.3841 0.4180 Out of Time <b>0.6797</b>	0.5087 0.6815 0.6519 Out of Time <b>0.8122</b>
33	DrivingSA	VGG19-AD	CNN	5279	original	image	R	N+W	LSA DSA MCP DeepGini PRIMA CertPri	0.3654 n/a n/a n/a 0.8156 0.7942	0.3876 n/a n/a n/a 0.7966 <b>0.8343</b>	0.3991 n/a n/a n/a 0.7732 0.8541	0.4236 n/a n/a n/a 0.7439 0.8307	0.4670 n/a n/a n/a 0.6972 0.8022	0.6509 n/a n/a n/a 0.7673 <b>0.8439</b>
34	DrivingSA	VGG19-AD	CNN	5279	original	image	R	N+B	LSA DSA MCP DeepGini PRIMA CertPri	n/a n/a n/a n/a n/a 0.4002 0.7879	n/a n/a n/a n/a n/a 0.3877 0.8339	n/a n/a n/a n/a n/a 0.3659 0.8043	n/a n/a n/a n/a 0.3740 0.8055	n/a n/a n/a n/a 0.3542 0.8305	n/a n/a n/a n/a 0.4041 0.8601
35	DrivingSA	VGG19-AD	CNN	5279	patch	image	R	N+W	LSA DSA MCP DeepGini PRIMA	0.3299 n/a n/a n/a 0.8170	0.3510 n/a n/a n/a 0.8140	0.3706 n/a n/a n/a 0.8060	0.3640 n/a n/a n/a n/a 0.7850	0.4504 n/a n/a n/a 0.7330	0.6880 n/a n/a n/a 0.7706
36	DrivingSA	VGG19-AD	CNN	5279	saturation	image	R	N+W	CertPri LSA DSA MCP DeepGini PRIMA	0.8239 0.4460 n/a n/a n/a 0.7630	0.8214 0.4230 n/a n/a n/a 0.7843	0.8455 0.4620 n/a n/a n/a 0.7922	0.8493 0.4530 n/a n/a n/a 0.8019	0.8097 0.4700 n/a n/a n/a 0.8355	0.8599 0.6580 n/a n/a n/a 0.8671
37	FMNIST	AlexNet	CNN	10000	original	image	С	N+W	CertPri LSA DSA MCP DeepGini PRIMA	0.8030 0.3880 0.4856 0.4742 0.4823 0.4907	0.8098 0.4470 0.5400 0.5752 0.5877 0.5321	0.8122 0.5120 0.6136 0.6804 0.6678 0.5989	0.8206 0.6403 0.7172 0.7372 0.7794 0.7390	0.7977 0.7980 0.8385 0.8481 <b>0.8649</b> 0.8410	0.8841 0.9332 0.9497 0.8983 0.9593 0.9505
38	FMNIST_P	AlexNet-P	CNN	10000	original	image	С	P+W	CertPri LSA DSA MCP DeepGini PRIMA	0.4742 0.4710 0.5957 0.4506 0.4934 1.0000	0.5953 0.4190 0.4972 0.4947 0.4785 1.0000	0.6902 0.3880 0.4654 0.4690 0.4598 1.0000	0.8088 0.3390 0.4122 0.4732 0.4860 1.0000	0.8294 0.3099 0.3980 0.4041 0.3709 0.9506	0.9790 0.5840 0.6201 0.5307 0.5434 0.9878
39	Ants_Bees	VGG16-AB	CNN	153	original	image	С	T+W	CertPri LSA DSA MCP DeepGini	1.0000 0.5750 0.6880 0.7650 0.8670	1.0000 n/a n/a n/a n/a	1.0000 n/a n/a n/a n/a	0.9890 n/a n/a n/a n/a	0.9760 n/a n/a n/a n/a	0.9980 0.6560 0.6932 0.7545 0.8954
40	Cats_Dogs	VGG19-CD	CNN	5000	original	image	C	T+W	PRIMA CertPri LSA DSA MCP DeepGini	0.9210 0.9450 0.4270 0.5867 0.6549 0.6930	n/a n/a 0.3956 0.5800 0.6433 0.7020	n/a n/a 0.3817 0.5341 0.6545 0.7212	n/a n/a 0.4061 0.5433 0.6675 0.7322	n/a n/a 0.5953 0.6977 0.6932 0.7947	0.9391 0.9645 0.6020 0.7104 0.7231 0.8290
41	IMDB	CNN-I	CNN	10000	original	text	С	N+W	PRIMA CertPri LSA DSA MCP DeepGini	0.8440 0.7965 0.3842 0.4390 0.6039 0.6375	0.8240 0.8355 0.4646 0.5640 0.6944 0.7124	0.7992 0.8287 0.4647 0.6610 0.7573 0.7911	0.8043 0.8452 0.5413 0.6580 0.8144 0.8384	0.8563 0.8745 0.5578 0.6560 0.8005 0.8201	0.8783 <b>0.9403</b> 0.7042 0.7323 0.8040
- 12	Th (CD)	LOTMI	LCTM	10000				NUN	PRIMA CertPri LSA DSA MCP	0.6800 0.7343 0.0940 0.3660 0.3902	0.7300 0.7345 0.0880 0.2870 0.3937	0.7911 0.8012 0.7905 0.0992 0.2383 0.4246	0.8632 0.8745 0.1287 0.2686 0.4438	0.8525 0.8540 0.1324 0.2030 0.4058	0.8730 0.8799 <b>0.9343</b> 0.4542 0.5008 0.7734
42	IMDB	LSTM-I	LSTM	10000	original	text	С	N+W	DeepGini PRIMA CertPri LSA DSA	0.4040 0.6010 <b>0.6902</b> 0.4031 0.4807	0.4030 0.5590 <b>0.6434</b> 0.5120 0.5688	0.4350 0.5438 <b>0.6455</b> 0.4860 0.6680	0.4360 0.5215 <b>0.6378</b> 0.5737 0.6563	0.4380 0.4936 <b>0.5953</b> 0.5751 0.6627	0.8180 0.8023 <b>0.8789</b> 0.7534 0.7562
43	Reuters	CNN-R	CNN	2246	original	text	С	N+W	MCP DeepGini PRIMA CertPri LSA DSA	0.6219 0.6544 0.7064 <b>0.7525</b> 0.2149 0.4053	0.7061 0.7507 0.6967 <b>0.7648</b> 0.2874 0.2914	0.7785 0.8362 0.6977 0.8103 0.2357 0.2359	0.8574 0.8776 0.8085 <b>0.8877</b> 0.2939 0.3156	0.8246 0.8289 0.8249 <b>0.8628</b> 0.2544 0.3105	0.8123 0.9085 0.8997 <b>0.9519</b> 0.4979 0.5122
44	Reuters	LSTM-R	LSTM	2246	original	text	С	N+W	MCP DeepGini PRIMA CertPri LSA	0.4264 0.4384 0.5984 <b>0.6959</b> 0.3570	0.3904 0.4485 0.5655 <b>0.6886</b> 0.2519	0.4542 0.4408 0.5597 <b>0.6758</b> 0.5554	0.4517 0.4334 <b>0.6403</b> 0.6384 n/a	0.4129 0.4470 0.5284 <b>0.6445</b> n/a	0.7746 0.8216 0.7991 <b>0.8841</b> 0.5961
45	VCTK10	LSTM-V	LSTM	400	original	speech	С	N+W	DSA MCP DeepGini PRIMA CertPri LSA	0.3283 0.5895 0.6259 0.4142 <b>0.7414</b> 0.3538	0.3026 0.6142 0.6288 0.4939 <b>0.7684</b> 0.3837	0.5784 0.6954 0.7958 0.8439 <b>0.8580</b> 0.5958	n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a	0.5283 0.7834 0.8594 <b>0.8789</b> 0.8562 0.6367
46	RML8PSK	LSTM-RML	LSTM	312	original	signal	R	N+W	DSA MCP DeepGini PRIMA CertPri	0.3338 n/a n/a n/a 0.7190 0.8219	0.3837 n/a n/a n/a 0.7030 0.8045	0.3938 n/a n/a n/a 0.7267 0.8232	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	0.6367 n/a n/a n/a 0.7553 0.8415
47	Cora	GCN-C	GCN	1000	original	graph	С	N+W	LSA DSA MCP DeepGini PRIMA CertPri	0.3517 0.3284 0.5434 0.6274 0.4232 <b>0.7473</b>	0.2616 0.2988 0.5847 0.6033 0.4517 <b>0.7379</b>	0.2431 0.2683 0.5984 0.5879 0.5058 <b>0.7097</b>	0.2246 0.2479 0.5045 0.5683 0.4953 <b>0.6965</b>	0.5989 0.5278 0.7473 <b>0.8484</b> 0.6462 0.8465	0.5989 0.5278 0.7473 <b>0.8484</b> 0.6462 0.8465

									LSA	0.4643	0.4955	0.5049	0.5455	0.4985	0.6555
									DSA	0.5165	0.5244	0.5245	0.5233	0.5389	0.7548
10	A J14	LFCN-A	FCN	10000	:-11	structured	C	NIIX	, MCP	0.5947	0.5768	0.5648	0.5049	0.5548	0.7857
48	Adult	LFCN-A	FCN	10000	original	tructured	C	IN+VV	DeepGini	0.5453	0.5837	0.5729	0.5309	0.5578	0.7971
									PRIMA	0.6039	0.5839	0.5937	0.5638	0.5540	0.7879
									CertPri	0.5956	0.6065	0.6025	0.5907	0.5877	0.8033
									LSA	0.4841	0.5131	0.5122	0.5571	0.6564	0.6564
	COMPAS H								DSA	0.5379	0.5495	0.5396	0.5158	0.7630	0.7630
10		HFCN-C	FCN	1000	original	structured	C	NILW	MCP	0.5692	0.5753	0.5669	0.4909	0.7594	0.7594
49		III CIN-C	ren	1000	Original	ituctureu	C	14 1 44	DeepGini	0.5216	0.5883	0.5497	0.5425	0.8072	0.8072
									PRIMA	0.5868	0.6017	0.5722	0.5348	0.7844	0.7844
									CertPri	0.5727	0.6271	0.5928	0.6057	0.8245	0.8245
									LSA	0.6560	n/a	n/a	n/a	n/a	0.6734
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
50	Boston	FCN-B	FCN	102	original	structured	P	N+W	MCP	n/a	n/a	n/a	n/a	n/a	n/a
50		I CIV-D	I CIV	102	Original	oti uctui cu	K	141 77	MCP DeepGini	n/a	n/a	n/a	n/a	n/a	n/a
									PRIMA	0.7873	n/a	n/a	n/a	n/a	0.7726
			1						CertPri	0.8547	n/a	n/a	n/a	n/a	0.8633

D.2 Repeat 2nd

D.2	2 Repeat	2nd													
ID	Datasets	Models	Struc.	#Inputs	Types	Forms	Tas.	Sce.	Methods	RAUC-100	RAUC-200	RAUC-300	RAUC-500	RAUC-1000	RAUC-all
									LSA	0.3822	0.2958	0.2376	0.2310	0.2425	0.6388
									DSA	0.3577	0.3406	0.2896	0.2838	0.2602	0.6445
1	CIFAR10	ResNet50	CNN	10000	original	image	С	N+W	MCP	0.3831	0.3638	0.3402	0.4483	0.4575	0.7871
1	CII AICIO	Resireiso	CIVIV	10000	Original	image		14.44	DeepGini	0.6726	0.6186	0.6188	0.5964	0.5680	0.8055
									PRIMA	0.8272	0.8160	0.7623	0.7747	0.6962	0.9219
									CertPri	0.8485	0.8255	0.8013	0.7600	0.7170	0.9073
									LSA	n/a	n/a	n/a	n/a	n/a	n/a
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
2	CIFAR10	ResNet50	CNN	10000	original	image	С	N+B	MCP	0.3831	0.3638	0.3402	0.4483	0.4575	0.7871
_	CHILITO	1001100	0111	10000	originar	50	_	1112	DeepGini	0.6726	0.6186	0.6188	0.5964	0.5680	0.8055
									PRIMA	0.4402	0.4337	0.4279	0.3886	0.4114	0.7013
									CertPri	0.8674	0.7932	0.7938	0.7598	0.7236	0.8846
									LSA	0.7726	0.7525	0.7471	0.7199	0.6749	0.7430
									DSA	0.8171	0.8321	0.8083	0.8001	0.7809	0.7308
3	CIFAR10	ResNet50	CNN	10000	+BIM	image	С	N+W	MCP	0.8532	0.8171	0.8236	0.8161	0.7926	0.7004
,	Christia	Resirees	CIVII	10000		image	·	14. 11	DeepGini	0.9541	0.9478	0.9365	0.9521	0.9130	0.9136
									PRIMA	1.0000	1.0000	0.9950	0.9867	0.9501	0.9263
									CertPri	0.9806	0.9875	0.9780	0.9633	0.9554	0.9488
									LSA	0.8680	0.8088	0.8001	0.7798	0.7601	0.7693
									DSA	0.8966	0.8570	0.8394	0.8022	0.7749	0.7711
4	CIFAR10	ResNet50	CNN	10000	+C&W	image	С	N+W	MCP	0.6171	0.7665	0.7506	0.7624	0.7211	0.7843
	Christia	Resirees	CIVII	10000		image	·	14. 11	DeepGini	0.8757	0.8683	0.9059	0.8892	0.8807	0.8916
									PRIMA	1.0000	1.0000	0.9672	0.9482	0.9506	0.9650
									CertPri	0.9858	0.9925	0.9893	0.9586	0.9451	0.9774
									LSA	0.8229	0.8204	0.7700	0.7607	0.7594	0.7941
	1	1	1						DSA	0.8557	0.8021	0.8032	0.7667	0.7604	0.7528
5	CIFAR10	ResNet50	CNN	10000	FineFool	image	С	N+W	MCP	0.8509	0.8533	0.8673	0.8322	0.8278	0.8515
,	21.71110	100011000	21111	10000	2 001	mage		***	DeepGini	0.8895	0.8780	0.8806	0.8809	0.8697	0.8861
	1	1	1						PRIMA	0.9102	0.9266	0.9466	0.9384	0.9547	0.9291
		1	1	<u> </u>					CertPri	0.9430	0.9638	0.9774	0.9844	0.9730	0.9869
									LSA	0.2594	0.1431	0.1287	0.1136	0.1192	0.3498
	1	1	1						DSA	0.2223	0.1539	0.1743	0.1492	0.1215	0.3380
6	CIFAR10	ResNet50	CNN	10000	+AdapS	image	С	N+W	MCP	0.2276	0.2581	0.2255	0.3559	0.3416	0.6623
	CHILITO	1001100	0111	10000	Trumpo	50	_	1111	DeepGini	0.5551	0.4651	0.4728	0.4961	0.4629	0.6653
									PRIMA	0.5404	0.5353	0.4963	0.5135	0.4157	0.6002
									CertPri	0.8707	0.8283	0.8027	0.7578	0.7340	0.9044
									LSA	0.2921	0.2145	0.1887	0.1925	0.1345	0.5393
									DSA	0.3045	0.2859	0.2565	0.2214	0.1799	0.5533
7	CIFAR10	ResNet50	CNN	10000	+AdapC	image	С	N+W	MCP	0.1224	0.1327	0.1251	0.1385	0.1688	0.3001
					1				DeepGini	0.1604	0.1274	0.1307	0.1941	0.1579	0.2960
									PRIMA	0.6228	0.5543	0.5774	0.5379	0.4712	0.6762
									CertPri	0.8444	0.8326	0.8062	0.7346	0.7238	0.9020
									LSA	0.2167	0.1132	0.1614	0.0940	0.1119	0.4787
									DSA	0.1873	0.1863	0.1398	0.1335	0.1296	0.4570
8	CIFAR10	ResNet50	CNN	10000	+AdapM	image	C	N+W	MCP	0.2354	0.2234	0.2255	0.3082	0.3277	0.6522
					1				DeepGini	0.5240	0.5037	0.5138	0.5065	0.4288	0.6598
									PRIMA	0.3728	0.3404	0.3349	0.3825	0.3275	0.4409
									CertPri	0.8600	0.8279	0.7787	0.7618	0.7202	0.9079
									LSA	0.3906	0.2829	0.2548	0.2697	0.2556	0.6187
									DSA	0.3432	0.2852	0.2877	0.2883	0.2734	0.6489
9	CIFAR10	VGG16	CNN	10000	original	image	C	N+W	MCP	0.3372 0.6455	0.3664	0.3748	0.4290	0.4443	0.7744
						Ü			DeepGini		0.5947	0.6367	0.6050	0.5738	0.8304
									PRIMA CertPri	0.8336 0.8602	0.7921 0.8641	0.7460 0.7650	0.7322 0.7460	0.7008 0.7024	0.8962 0.9186
		-						<u> </u>							
									LSA DSA	n/a	n/a	n/a	n/a	n/a	n/a
										n/a 0.3372	n/a 0.3664	n/a 0.3748	n/a 0.4290	n/a	n/a 0.7744
10	CIFAR10	VGG16	CNN	10000	original	image	C	N+B	MCP DeepGini	0.6455	0.5947	0.6367	0.6050	0.4443 0.5738	0.7744
									PRIMA	0.4541	0.3947	0.4556	0.4112	0.4090	0.6907
									CertPri	0.8848	0.8029	0.4330	0.7370	0.7265	0.8877
_			1						LSA	0.7484	0.7209	0.7152	0.6691	0.7078	0.7686
									DSA	0.8336	0.8089	0.8530	0.7772	0.7797	0.7630
									MCP	0.8420	0.8136	0.8195	0.7662	0.7629	0.6703
11	CIFAR10	VGG16	CNN	10000	+BIM	image	C	N+W	DeepGini	0.9792	0.8130	0.8193	0.7002	0.7629	0.8929
	1	1	1						PRIMA	0.9962	0.9822	0.9676	0.9407	0.9987	0.9370
	1	1	1						CertPri	0.9798	0.9427	0.9012	0.9089	0.9558	0.9522
	t	1	1						LSA	0.8507	0.8537	0.8248	0.7978	0.7438	0.7887
									DSA	0.8888	0.8593	0.8327	0.7797	0.8131	0.7627
	om:-								MCP	0.6120	0.7543	0.7488	0.7234	0.7406	0.7639
12	CIFAR10	VGG16	CNN	10000	+C&W	image	C	N+W	DeepGini	0.9055	0.9133	0.8939	0.8671	0.9123	0.9170
	1	1	1						PRIMA	0.9930	0.9787	0.9089	0.9500	0.9174	0.9429
	1	1	1						CertPri	0.9337	0.9575	0.9783	0.9377	0.9499	0.9577
			1	1					LSA	0.8196	0.8078	0.7816	0.7607	0.7380	0.7411
	1	1	1						DSA	0.8443	0.8291	0.8043	0.7686	0.7677	0.7491
12	CIEADAO	VCC16	CNN	10000	pi p	,	~	NT : ***	MCP	0.8316	0.8534	0.8878	0.8113	0.8378	0.8345
13	CIFAR10	VGG16	CNN	10000	FineFool	image	C	N+W	DeepGini	0.8788	0.8905	0.8639	0.8592	0.8574	0.8870
	1	1	1						PRIMA	0.9468	0.9473	0.9842	0.9704	0.9418	0.9542
	1	1	1						CertPri	0.9485	0.9764	0.9646	0.8929	0.9933	0.9725
									LSA	0.2589	0.1546	0.1152	0.0882	0.1039	0.3402
	1	1	1						DSA	0.1977	0.1604	0.1863	0.1716	0.0795	0.3549
1.4	CIFAR10	VGG16	CNN	10000	± A dome	imaa-	С	N+W	MCP	0.2215	0.2602	0.2279	0.3699	0.3439	0.6710
14	CIFARIU	A OO 10	CININ	10000	+AdapS	image	C	IN→ W	DeepGini	0.5532	0.4536	0.4821	0.4622	0.4843	0.6731
	1	1	1						PRIMA	0.5420	0.5567	0.4484	0.5395	0.4448	0.6238
	<u></u>	1	<u> </u>	<u>L</u>				L	CertPri	0.8654	0.8261	0.8141	0.7759	0.7450	0.9006
									LSA	0.3479	0.2339	0.2081	0.2086	0.1413	0.5490
	1	1	1						DSA	0.3071	0.2820	0.2436	0.2005	0.2121	0.5649
15	CIFAR10	VGG16	CNN	10000	+AdapC	image	С	N+W	MCP	0.1156	0.1610	0.1396	0.1316	0.1323	0.2824
13	OH AICH	, 5010	01111	10000	· A suape	mage	C	11.44	DeepGini	0.1526	0.1738	0.1095	0.1911	0.1584	0.2660
									PRIMA	0.6345	0.5929	0.5447	0.5112	0.4587	0.6982
				ļ					CertPri	0.8381	0.8097	0.7928	0.7428	0.7484	0.9180
_	l	1	1	1					LSA	0.2331	0.1145	0.1593	0.0915	0.1129	0.4442
	I		1						DSA	0.1918	0.1619	0.1083	0.1245	0.0912	0.4718

	I	ı	ı	1 1	1 . 1	. 1		I	MCP	0.2616	0.1914	0.2270	0.2876	0.3170	0.6602
16	CIFAR10	VGG16	CNN	10000	+AdapM	image	С	N+W	DeepGini	0.5615	0.5181	0.4997	0.4808	0.4588	0.6795
									PRIMA CertPri	0.3769 0.8741	0.3606 0.8139	0.3774 0.7712	0.3541 0.7602	0.2996 0.6842	0.4371 0.9146
									LSA	0.3560	0.3035	0.2564	0.2176	0.2099	0.6214
									DSA	0.3398	0.3280	0.2752	0.2575	0.2684	0.6320
17	ImageNet	ResNet101	CNN	5000	original	image	C	N+W	MCP DeepGini	0.3439 0.6569	0.3570 0.5963	0.3453 0.5657	0.4201 0.5723	0.4307 0.5382	0.7944 0.7830
									PRIMA	0.7038	0.6852	0.7193	0.5969	0.5835	0.7962
									CertPri	0.7414	0.7451	0.6732	0.6441	0.6182	0.8292
									LSA DSA	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
10	ImagaNat	ResNet101	CNN	5000	omiorimo]	imaga	С	N+B	MCP	0.3439	0.3570	0.3453	0.4201	0.4307	0.7944
10	ImageNet	Resiletiui	CININ	3000	original	image	C	N⊤B	DeepGini	0.6569	0.5963	0.5657	0.5723	0.5382	0.7830
									PRIMA CertPri	0.3592 0.7630	0.5451 0.7643	0.3842 0.6454	0.3989 0.6343	0.4065 0.5847	0.5643 0.8567
									LSA	0.6206	0.6158	0.5773	0.4551	0.4253	0.4998
									DSA	0.5907	0.5656	0.5769	0.5565	0.5290	0.4805
19	ImageNet	ResNet101	CNN	5000	+BIM	image	C	N+W	MCP DeepGini	0.5598 0.8325	0.7153 0.6684	0.5626 0.8084	0.6809 0.6801	0.6695 0.6296	0.4155 0.6333
									PRIMA	0.8532	0.7267	0.9019	0.6573	0.8581	0.6281
									CertPri	0.8436	0.8152	0.8512	0.9358	0.8297	0.9117
									LSA DSA	0.6269 0.6238	0.5886 0.6993	0.6371 0.7199	0.6263 0.5652	0.6030 0.5423	0.6137 0.5489
20	ImagaNat	ResNet101	CNN	5000	+C&W	imaga	С	N+W	MCP	0.5097	0.6293	0.6106	0.4843	0.4658	0.6853
20	ImageNet	Resinction	CININ	3000	+C&W	image	C	IN⊤ W	DeepGini	0.5971	0.6024	0.6181	0.6054	0.6141	0.7699
									PRIMA CertPri	0.9149 0.9459	0.8633 0.9138	0.8199 0.8169	0.8459 0.7988	0.8504 0.8367	0.6598 0.9232
									LSA	0.5680	0.5543	0.5424	0.6107	0.6245	0.5270
									DSA MCP	0.6947 0.5872	0.5399 0.5711	0.6489 0.7502	0.6291 0.5681	0.6055 0.5597	0.5074 0.5757
21	ImageNet	ResNet101	CNN	5000	FineFool	image	C	N+W	MCP DeepGini	0.5872	0.5711	0.7502	0.5681	0.5597	0.5757
									PRIMA	0.8404	0.8321	0.8280	0.8228	0.6534	0.6327
									CertPri	0.8552 0.2459	0.9157 0.0712	0.9529 0.1257	0.8196	0.9287 0.1990	0.9333 0.3103
									LSA DSA	0.2439	0.0712	0.1257	0.0236 0.1730	0.1990	0.3130
22	ImageNet	ResNet101	CNN	5000	+AdapS	image	С	N+W	MCP	0.2028	0.3239	0.3019	0.3564	0.4290	0.5797
	mageriet	resitetioi	CIVIT	5000	12 Kuupis	mage	·	11. 11	DeepGini PRIMA	0.5591 0.5087	0.5613 0.5310	0.4113 0.4267	0.3926 0.4982	0.4129 0.3299	0.6892 0.4936
									CertPri	0.7207	0.7990	0.6898	0.5855	0.6493	0.8451
									LSA	0.3040	0.2366	0.1759	0.2037	0.1335	0.4968
									DSA MCP	0.2971 0.0485	0.3108 0.1095	0.2218 0.1965	0.2226 0.0432	0.2382 0.1236	0.5122 0.3381
23	ImageNet	ResNet101	CNN	5000	+AdapC	image	C	N+W	DeepGini	0.1341	0.0895	0.1303	0.1221	0.2067	0.2324
									PRIMA	0.6183	0.6221	0.6038	0.5427	0.4208	0.7017
			-	-					CertPri LSA	0.8314 0.2050	0.7847 0.1445	0.7329 0.1878	0.6982 0.0946	0.6714 0.1112	0.8470 0.4586
									DSA	0.1376	0.1582	0.1280	0.1416	0.1346	0.4847
24	ImageNet	ResNet101	CNN	5000	+AdapM	image	С	N+W	MCP	0.2763	0.2305	0.1951	0.2889	0.3669	0.7121
									DeepGini PRIMA	0.5734 0.3217	0.4712 0.3759	0.4781 0.3475	0.4841 0.3537	0.4138 0.2998	0.6235 0.3896
									CertPri	0.8060	0.7525	0.7109	0.6698	0.6434	0.8204
									LSA DSA	0.3689 0.3058	0.2914	0.2596 0.2881	0.2180 0.2296	0.2275 0.2556	0.6464
		******					_		MCP	0.3038	0.3092 0.3649	0.2881	0.2296	0.2336	0.6159 0.7886
25	ImageNet	VGG19	CNN	5000	original	image	С	N+W	DeepGini	0.6535	0.6078	0.5467	0.5391	0.5529	0.7534
									PRIMA CertPri	Out of Time 0.7575	Out of Time 0.7519	Out of Time 0.6677	Out of Time 0.6729	Out of Time 0.5982	Out of Time 0.8309
									LSA	n/a	n/a	n/a	n/a	n/a	n/a
									DSA	n/a		n/a	n/a	n/a	n/a
26	ImageNet	VGG19	CNN	5000	original	image	C	N+B	MCP DeepGini	0.3338 0.6535	0.3649 0.6078	0.3060 0.5467	0.4557 0.5391	0.4366 0.5529	0.7886 0.7534
									PRIMA	Out of Time					Out of Time
									CertPri LSA	0.7517 0.6344	0.7479 0.5880	0.6795 0.5863	0.6272 0.4933	0.5698 0.4238	0.8654 0.4991
									DSA	0.5756	0.5897	0.6008	0.4933	0.5309	0.4991
27	ImageNet	VGG19	CNN	5000	+BIM	image	С	N+W	MCP	0.5893	0.7084	0.5606	0.7078	0.6587	0.4337
	3			2000		90	_		DeepGini PRIMA	0.8197 Out of Time	0.6755 Out of Time	0.8151 Out of Time	0.6825 Out of Time	0.6142 Out of Time	0.6429 Out of Time
									CertPri	0.8559	0.8457	0.8544	0.9428	0.8409	0.8803
									LSA	0.5981	0.5814	0.6559	0.6355	0.6191	0.6377
		L						l_	DSA MCP	0.6530 0.5154	0.7077 0.6350	0.6925 0.6016	0.5758 0.4663	0.5201 0.4329	0.5401 0.6340
28	ImageNet	VGG19	CNN	5000	+C&W	image	C	N+W	DeepGini	0.5856	0.5800	0.6029	0.5801	0.6357	0.7567
									PRIMA ContPui	Out of Time					
			-	-					CertPri LSA	0.9555 0.5356	0.9140 0.5740	0.7988 0.5393	0.8303 0.6017	0.8610 0.6456	0.9154 0.5099
									DSA	0.7154	0.5737	0.6671	0.6392	0.6123	0.5516
29	ImageNet	VGG19	CNN	5000	FineFool	image	С	N+W	MCP	0.5561	0.5618	0.7634	0.5554	0.5619	0.5424
									DeepGini PRIMA	0.7530 Out of Time	0.7763 Out of Time	0.6182 Out of Time	0.5881 Out of Time	0.6022 Out of Time	0.6081 Out of Time
									CertPri	0.8299	0.9111	0.9263	0.8081	0.9562	0.9307
_				1 7		Ţ	_		LSA DSA	0.2342 0.1730	0.0829 0.1096	0.1360 0.2543	0.0338 0.1700	0.1991 0.0683	0.2977 0.2937
20	T 37	Moore	CD D :	5000		.	_	<b></b>	MCP	0.1730	0.1096	0.2543	0.1700	0.0683	0.2937
30	ImageNet	VGG19	CNN	5000	+AdapS	image	С	N+W	DeepGini	0.6041	0.5316	0.4079	0.3945	0.4360	0.6905
									PRIMA CertPri	Out of Time 0.7405	Out of Time 0.7914	Out of Time 0.6597	Out of Time 0.5986	Out of Time 0.6752	Out of Time 0.8498
	<u> </u>	1		+					LSA	0.7405	0.7914	0.6597	0.3986	0.6752	0.8498
									DSA	0.3169	0.3257	0.2220	0.2598	0.2538	0.5323
31	ImageNet	VGG19	CNN	5000	+AdapC	image	C	N+W	MCP DeepGini	0.0355 0.1268	0.0996 0.0698	0.1931 0.1822	0.0035 0.1431	0.1572 0.2029	0.3410 0.2678
						-			PRIMA	Out of Time			Out of Time	Out of Time	Out of Time
									CertPri	0.8085	0.7824	0.7425	0.7127	0.6843	0.8884
									LSA	0.1796	0.1356	0.2017	0.0563	0.0968	0.4758

			ĺ	Ì					DSA MCP	0.1524 0.2768	0.1575 0.2077	0.1319 0.2010	0.1424 0.2907	0.1379 0.3757	0.5107 0.6899
32	ImageNet	VGG19	CNN	5000	+AdapM	image	С	N+W	DeepGini	0.5677	0.4784	0.4731	0.4728	0.4147	0.6674
									PRIMA	Out of Time		Out of Time	Out of Time	Out of Time	Out of Time
									CertPri	0.8040	0.7841	0.7214	0.6514	0.6951	0.8261
									LSA	0.3574	0.3722	0.3988	0.4387	0.4622	0.6675
									DSA	n/a		n/a	n/a	n/a	n/a
33	DrivingSA	VGG19-AD	CNN	5279	original	image	R	N+W	MCP	n/a	n/a	n/a	n/a	n/a	n/a
									DeepGini PRIMA	n/a 0.8097	n/a 0.7863	n/a 0.7865	n/a 0.7526	n/a 0.7127	n/a 0.7647
									CertPri	0.8097	0.7803	0.7803	0.7326	0.7127	0.7647
								1	LSA	n/a		n/a	0.8280 n/a	0.8143 n/a	n/a
									DSA	n/a		n/a	n/a	n/a	n/a
									MCP	n/a		n/a	n/a	n/a	n/a
34	DrivingSA	VGG19-AD	CNN	5279	original	image	R	N+B	DeepGini	n/a	n/a	n/a	n/a	n/a	n/a
									PRIMA	0.4083	0.4013	0.3568	0.3575	0.3393	0.3918
									CertPri	0.7915	0.8380	0.7905	0.8104	0.8154	0.8619
									LSA	0.3310	0.3331	0.3784	0.3544	0.4617	0.6989
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
35	DrivingSA	VGG19-AD	CNN	5279	patch	image	R	N+W	MCP	n/a	n/a	n/a	n/a	n/a	n/a
-	Dirringori	10017111	01111	5217	Paten	mage		2,,,,,	DeepGini	n/a		n/a	n/a	n/a	n/a
									PRIMA	0.8000	0.8065	0.7964	0.7775	0.7305	0.7862
									CertPri	0.8404 0.4425	0.8091	0.8446	0.8650	0.8127	0.8541
									LSA DSA		0.4324 n/a	0.4524	0.4651 n/a	0.4678 n/a	0.6502
									MCP	n/a n/a		n/a n/a	n/a	n/a	n/a n/a
36	DrivingSA	VGG19-AD	CNN	5279	aturation	image	R	N+W	DeepGini	n/a		n/a	n/a	n/a	n/a
								ĺ	PRIMA	0.7666	0.7886	0.7928	0.7867	0.8530	0.8769
								ĺ	CertPri	0.7877	0.8029	0.7979	0.8144	0.7806	0.8680
				1					LSA	0.3711	0.4638	0.4948	0.6480	0.8094	0.9399
								Ì	DSA	0.4849	0.5283	0.6084	0.7291	0.8295	0.9665
27	EMNIICT	AlavNat	CNN	10000	orioi1	i	_	N+W	MCP	0.4712	0.5875	0.6755	0.7300	0.8369	0.8936
3/	FMNIST	AlexNet	CNN	10000	original	image	С	IN⊤W	DeepGini	0.4901	0.5981	0.6743	0.7812	0.8599	0.9418
									PRIMA	0.4812	0.5352	0.5826	0.7453	0.8404	0.9381
									CertPri	0.4904	0.6120	0.6847	0.7981	0.8261	0.9840
_						T	_	Ī	LSA	0.4696	0.4077	0.3718	0.3366	0.2962	0.5792
									DSA	0.5872	0.4809	0.4634	0.3994	0.3908	0.6095
38	FMNIST P	AlexNet-P	CNN	10000	original	image	С	P+W	MCP	0.4373	0.4768	0.4719	0.4687	0.4187	0.5287
	_				8	8			DeepGini	0.5062	0.4889	0.4460	0.4837	0.3767	0.5341
									PRIMA CertPri	0.9896 0.9100	0.9955 0.9829	0.9879 0.9934	0.9746 0.9627	0.9423 0.9779	0.9795 0.9834
									LSA	0.5869	0.9829 n/a	0.9934 n/a	0.9027 n/a	0.9779 n/a	0.9834
									DSA	0.7042	n/a	n/a	n/a	n/a	0.7029
									MCP	0.7756	n/a	n/a	n/a	n/a	0.7409
39	Ants_Bees	VGG16-AB	CNN	153	original	image	C	T+W	DeepGini	0.8652	n/a	n/a	n/a	n/a	0.8989
									PRIMA	0.9052	n/a	n/a	n/a	n/a	0.9262
									CertPri	0.9515	n/a	n/a	n/a	n/a	0.9647
									LSA	0.4176	0.4110	0.3956	0.3881	0.5824	0.5903
									DSA	0.6027	0.5732	0.5425	0.5324	0.7146	0.7191
40	Cats Dogs	VGG19-CD	CNN	5000	original	image	С	T+W	MCP	0.6535	0.6389	0.6397	0.6760	0.6802	0.7074
	Cuts_Bogs	. 001, 02	01111	2000	ongman	mage		1	DeepGini	0.6929	0.7007	0.7307	0.7149	0.7856	0.8318
									PRIMA	0.8414	0.8183	0.8130	0.8168	0.8732	0.8656
									CertPri	0.7900	0.8347	0.8365	0.8399	0.8808	0.9354
									LSA DSA	0.3888 0.4296	0.4617 0.5566	0.4678 0.6635	0.5449 0.6417	0.5706 0.6448	0.7150 0.7148
									MCP	0.5883	0.6864	0.7501	0.8316	0.8044	0.7148
41	IMDB	CNN-I	CNN	10000	original	text	C	N+W	DeepGini	0.6357	0.6969	0.7767	0.8439	0.8058	0.8713
									PRIMA	0.6764	0.7371	0.8010	0.8747	0.8698	0.8818
									CertPri	0.7168	0.7207	0.7838	0.8857	0.8445	0.9206
									LSA	0.0812	0.0863	0.0843	0.1210	0.1450	0.4653
									DSA	0.3810	0.2762	0.2232	0.2607	0.1961	0.5132
12	IMDB	LSTM-I	LSTM	10000	original	text	С	N+W	MCP	0.4032	0.3891	0.4254	0.4331	0.3890	0.7591
74	מסווייו	LO 1 1VI=1	LO 1 IVI	10000	original	icat	C	14 1 44	DeepGini	0.4044	0.3986	0.4224	0.4461	0.4259	0.8326
								ĺ	PRIMA	0.5894	0.5641	0.5612	0.5213	0.4894	0.8116
				1				<u> </u>	CertPri	0.6789	0.6573	0.6618	0.6355	0.6115	0.8795
								Ì	LSA DSA	0.4000 0.4730	0.5151 0.5643	0.4789 0.6786	0.5860 0.6481	0.5880 0.6494	0.7355 0.7671
								ĺ	MCP	0.4730	0.3643	0.6786	0.8665	0.8494	0.7671
43	Reuters	CNN-R	CNN	2246	original	text	C	N+W	DeepGini	0.6457	0.7032	0.7902	0.8827	0.8133	0.7900
								ĺ	PRIMA	0.7168	0.7411	0.7110	0.7913	0.8306	0.0732
								ĺ	CertPri	0.7650	0.7501	0.8142	0.8856	0.8664	0.9636
									LSA	0.2119	0.2883	0.2477	0.3067	0.2372	0.4963
								ĺ	DSA	0.4136	0.3023	0.2391	0.3327	0.3119	0.5022
44	Reuters	LSTM-R	LSTM	2246	original	text	С	N+W	MCP	0.4365	0.3753	0.4380	0.4681	0.4232	0.7913
	readitis	TO 1 1/1-1	11/1	2240	original	icxi	C	141.AA	DeepGini	0.4564	0.4437	0.4236	0.4178	0.4563	0.8126
								ĺ	PRIMA	0.5807	0.5779	0.5471	0.6374	0.5360	0.8070
									CertPri	0.6837	0.7033	0.6633	0.6537	0.6342	0.8711
								ĺ	LSA	0.3747	0.2616	0.5394	n/a	n/a	0.6116
								Ì	DSA MCP	0.3204 0.5826	0.2992 0.6289	0.5680 0.7111	n/a	n/a	0.5124 0.7766
45	VCTK10	LSTM-V	LSTM	400	original	speech	C	N+W	MCP DeepGini	0.5826	0.6289	0.7111	n/a n/a	n/a n/a	0.7766
								Ì	PRIMA	0.6093	0.5013	0.7990	n/a n/a	n/a n/a	0.8460
								ĺ	CertPri	0.7432	0.7537	0.8625	n/a	n/a	0.8823
				1				<del> </del>	LSA	0.7432	0.7557	0.8023	n/a	n/a	0.6374
								ĺ	DSA	n/a		n/a	n/a	n/a	n/a
11	DMI ODGI	LOTALDAG	LOTA	212		ļ., "	10	XT . ***	MCP	n/a		n/a	n/a	n/a	n/a
46	RML8PSK	LSTM-RML	LSIM	312	original	signal	R	N+W	DeepGini	n/a	n/a	n/a	n/a	n/a	n/a
								ĺ	PRIMA	0.7160	0.7092	0.7326	n/a	n/a	0.7427
								<u> </u>	CertPri	0.8306	0.7980	0.8134	n/a	n/a	0.8301
_	I	I	1					1	LSA	0.3362	0.2445	0.2586	0.2207	0.6126	0.6126
									DSA	0.3293	0.2969	0.2514	0.2632	0.5104	0.5104
		0010	GCN	1000	original	graph	С	N+W	MCP	0.5520	0.5958	0.5854	0.4906	0.7514	0.7514
47	Cora	GCN-C	GCI												
47	Cora	GCN-C	GCIV	1000		0 1			DeepGini DD IM A	0.6230	0.6074	0.5909	0.5787	0.8359	0.8359
47	Cora	GCN-C	GCIV	1000					PRIMA CertPri	0.6230 0.4159 0.7647	0.6074 0.4438 0.7462	0.5909 0.5226 0.7087	0.5787 0.5002 0.6919	0.8359 0.6588 0.8350	0.8359 0.6588 0.8350

									LSA	0.4482	0.5056	0.5142	0.5484	0.4861	0.6385
									DSA	0.5050	0.5400	0.5393	0.5153	0.5390	0.7719
10	Adult	LFCN-A	FCN	10000	:-1	structured	C	NIIX	, MCP	0.5934	0.5621	0.5808	0.4983	0.5612	0.7711
48	Adult	LFCN-A	FCN	10000	originai	tructured	C	IN+VV	DeepGini	0.5407	0.5677	0.5764	0.5361	0.5490	0.8036
									PRIMA	0.6022	0.5762	0.5967	0.5711	0.5675	0.7931
									CertPri	0.5811	0.6125	0.6126	0.6083	0.5733	0.7884
									LSA	0.4952	0.5181	0.4969	0.5442	0.6540	0.6540
	COMPAS I								DSA	0.5456	0.5431	0.5325	0.5193	0.7579	0.7579
10		HFCN-C	FCN	1000	original	structured	C	NILW	MCP	0.5605	0.5858	0.5838	0.4983	0.7494	0.7494
77		III CIN-C	ren	1000	Original	inuctureu	C	14 1 44	DeepGini	0.5040	0.5901	0.5621	0.5594	0.8249	0.8249
									PRIMA	0.5809	0.6042	0.5626	0.5183	0.7935	0.7935
									CertPri	0.5681	0.6444	0.5964	0.6024	0.8406	0.8406
									LSA	0.6730	n/a	n/a	n/a	n/a	0.6904
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
50	Boston	FCN-B	FCN	102	original	structured	D	NILW	MCP	n/a	n/a	n/a	n/a	n/a	n/a
50		ren-b	ren	102	Original	ituctureu	K	14 1 44	MCP DeepGini	n/a	n/a	n/a	n/a	n/a	n/a
									PRIMA	0.7745	n/a	n/a	n/a	n/a	0.7873
									CertPri	0.8713	n/a	n/a	n/a	n/a	0.8598

D.:	3 Repeat	3rd													
ID	Datasets	Models	Struc.	#Inputs	Types	Forms	Tas.	Sce.	Methods	RAUC-100				RAUC-1000	RAUC-all
									LSA DSA	0.4022 0.3605	0.3090 0.3370	0.2597 0.3075	0.2363 0.2770	0.2521 0.2581	0.6376 0.6416
									MCP	0.3576	0.3570	0.3479	0.2770	0.2381	0.8065
1	CIFAR10	ResNet50	CNN	10000	original	image	C	N+W	DeepGini	0.6672	0.6194	0.6228	0.6141	0.5744	0.8060
									PRIMA	0.8458	0.8068	0.7725	0.7577	0.7049	0.9396
									CertPri	0.8681	0.8118	0.7976	0.7618	0.7403	0.9119
									LSA DSA	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
	CIE A D 10	D N (50	CNDI	10000			0	MID	MCP	0.3576	0.3521	0.3479	0.4532	0.4250	0.8065
2	CIFAR10	ResNet50	CNN	10000	original	image	С	N+B	DeepGini	0.6672	0.6194	0.6228	0.6141	0.5744	0.8060
									PRIMA	0.4557	0.4329	0.4183	0.4181	0.4324	0.7228
									CertPri LSA	0.8705 0.7599	0.7995 0.7637	0.8031 0.7239	0.7592 0.6974	0.7484 0.6758	0.8909 0.7535
									DSA	0.8074	0.7037	0.7239	0.7956	0.7557	0.7333
1	CIFAR10	D N (50	CNDI	10000	· DDA			NT : 337	MCP	0.8703	0.8189	0.8250	0.8015	0.7815	0.6775
3	CIFARIO	ResNet50	CNN	10000	+BIM	image	С	N+W	DeepGini	0.9446	0.9345	0.9387	0.9545	0.9369	0.8980
									PRIMA	1.0000	1.0000	0.9969	0.9596	0.9475	0.9380
									CertPri LSA	1.0000 0.8781	0.9641 0.8119	0.9762 0.7911	0.9792 0.7709	0.9574 0.7595	0.9650 0.7782
									DSA	0.8762	0.8665	0.8482	0.8267	0.7743	0.7792
4	CIFAR10	ResNet50	CNN	10000	+C&W	image	С	N+W	MCP	0.6511	0.7665	0.7603	0.7386	0.7298	0.7977
-	CITAKIO	Resireio	CIVIN	10000	1 C&W	image	C	14 1 44	DeepGini	0.8820	0.8718	0.8895	0.8736	0.8949	0.8829
									PRIMA CertPri	1.0000 0.9969	1.0000 0.9734	0.9676 0.9876	0.9333 0.9684	0.9557 0.9608	0.9708 0.9916
									LSA	0.8386	0.8099	0.8025	0.7280	0.7453	0.7665
									DSA	0.8349	0.7875	0.7906	0.7697	0.7428	0.7650
5	CIFAR10	ResNet50	CNN	10000	FineFool	image	С	N+W	MCP	0.8513	0.8524	0.8664	0.8531	0.8336	0.8480
	CHTHEIO	resi (eta)	CIVII	10000	i mer oor	mage	_	14. 11	DeepGini	0.8969	0.8787	0.8967	0.8714	0.8636	0.8943
									PRIMA CertPri	0.9360 0.9516	0.9396 0.9473	0.9298 0.9898	0.9541 0.9948	0.9551 0.9969	0.9402 0.9982
-	<del>                                     </del>		+	<u> </u>					LSA	0.9310	0.9473	0.1096	0.9948	0.1193	0.3667
									DSA	0.2238	0.1461	0.1934	0.1577	0.1001	0.3543
6	CIFAR10	ResNet50	CNN	10000	+AdapS	image	С	N+W	MCP	0.2181	0.2438	0.2419	0.3279	0.3143	0.6756
							_		DeepGini PRIMA	0.5465 0.5410	0.4871 0.5378	0.4730 0.4685	0.4867 0.5295	0.4708 0.4183	0.6615 0.6160
									CertPri	0.8712	0.3378	0.4083	0.3293	0.7068	0.0100
									LSA	0.3187	0.2048	0.1820	0.2003	0.1627	0.5628
									DSA	0.2986	0.2681	0.2506	0.2126	0.1753	0.5844
7	CIFAR10	ResNet50	CNN	10000	+AdapC	image	С	N+W	MCP	0.1226	0.1403	0.1385	0.1420	0.1554	0.2769
					1	8			DeepGini PRIMA	0.1712 0.6120	0.1545 0.5686	0.1300 0.5528	0.1721 0.5327	0.1712 0.4571	0.3127 0.7077
									CertPri	0.8632	0.8074	0.8041	0.7651	0.7016	0.7077
									LSA	0.1892	0.0950	0.1649	0.1019	0.1156	0.4749
									DSA	0.1918	0.1748	0.1194	0.1144	0.1081	0.4743
8	CIFAR10	ResNet50	CNN	10000	+AdapM	image	С	N+W	MCP	0.2555	0.2111	0.2363	0.2897	0.3304	0.6601
					1	Č			DeepGini PRIMA	0.5314 0.3567	0.4974 0.3746	0.5212 0.3476	0.5018 0.3745	0.4474 0.3109	0.6608 0.4336
									CertPri	0.8462	0.8078	0.7916	0.7418	0.7207	0.9183
									LSA	0.3869	0.2912	0.2394	0.2691	0.2259	0.6170
									DSA	0.3489	0.3000	0.2828	0.2814	0.2648	0.6304
9	CIFAR10	VGG16	CNN	10000	original	image	C	N+W	MCP DeepGini	0.3618 0.6470	0.3937 0.6126	0.3782 0.6444	0.4209 0.5835	0.4647 0.5721	0.7925 0.8416
									PRIMA	0.8262	0.7782	0.7550	0.7430	0.7079	0.9007
									CertPri	0.8614	0.8323	0.7831	0.7584	0.6991	0.9179
									LSA	n/a	n/a	n/a	n/a	n/a	n/a
									DSA	n/a	n/a	n/a	n/a		n/a
10	CIFAR10	VGG16	CNN	10000	original	image	C	N+B	MCP DeepGini	0.3618 0.6470	0.3937 0.6126	0.3782 0.6444	0.4209 0.5835	0.4647 0.5721	0.7925 0.8416
									PRIMA	0.4791	0.4451	0.4483	0.4274	0.3978	0.6917
									CertPri	0.8845	0.7759	0.7987	0.7553	0.7115	0.8673
									LSA	0.7626	0.7226	0.7031	0.6615	0.7132	0.7646
1	1								DSA MCP	0.8434 0.8606	0.8099	0.8471	0.7899	0.7855	0.7776
11	CIFAR10	VGG16	CNN	10000	+BIM	image	C	N+W	MCP DeepGini	0.8606	0.8262 0.9783	0.8244 0.9448	0.7661 0.9352	0.7751 0.9192	0.6565 0.8908
									PRIMA	1.0000	0.9898	0.9635	0.9385	0.9892	0.9388
L			<u> </u>	<u> </u>					CertPri	0.9647	0.9507	0.9265	0.9200	0.9644	0.9672
	1					Ī			LSA	0.8404	0.8487	0.8214	0.7768	0.7520	0.7880
	1								DSA MCP	0.8668 0.5987	0.8616 0.7491	0.8430 0.7194	0.8032 0.7388	0.8174 0.7103	0.7766 0.7621
12	CIFAR10	VGG16	CNN	10000	+C&W	image	C	N+W	DeepGini	0.9045	0.7491	0.7194	0.7388	0.7103	0.7621
	1								PRIMA	0.9760	0.9839	0.9309	0.9550	0.9155	0.9455
			1	ļ					CertPri	0.9513	0.9446	0.9993	0.9395	0.9622	0.9846
	1				]	Ţ			LSA	0.8182	0.7947	0.7877	0.7761	0.7415	0.7336
1	1								DSA MCP	0.8193 0.8230	0.8098 0.8652	0.7831 0.9011	0.7455 0.8359	0.7789 0.8368	0.7391 0.8275
13	CIFAR10	VGG16	CNN	10000	FineFool	image	C	N+W	DeepGini	0.8230	0.9094	0.8815	0.8623	0.8315	0.8273
	1								PRIMA	0.9504	0.9463	0.9849	0.9668	0.9253	0.9307
<u> </u>			1	ļ					CertPri	0.9308	0.9810	0.9695	0.9068	0.9753	0.9723
	1								LSA	0.2573	0.1420	0.1149 0.1943	0.0715	0.1235	0.3481
	1								DSA MCP	0.2156 0.2376	0.1627 0.2283	0.1943	0.1862 0.3381	0.1059 0.3592	0.3656 0.6684
14	CIFAR10	VGG16	CNN	10000	+AdapS	image	C	N+W	DeepGini	0.5633	0.4460	0.4918	0.4743	0.4917	0.6716
	1								PRIMA	0.5202	0.5630	0.4773	0.5389	0.4212	0.6199
<u> </u>			1	ļ					CertPri	0.8467	0.8181	0.8065	0.7725	0.7410	0.8890
	1								LSA DSA	0.3289	0.2013	0.2217	0.1908	0.1568 0.2209	0.5557
									MCP	0.3403 0.0912	0.2811 0.1657	0.2361 0.1636	0.2138 0.1355	0.2209	0.5626 0.3005
15	CIFAR10	VGG16	CNN	10000	+AdapC	image	C	N+W	DeepGini	0.1294	0.1811	0.1176	0.2117	0.1728	0.2723
	1								PRIMA	0.6345	0.5753	0.5460	0.5301	0.4674	0.7084
<u></u>			1	ļ					CertPri	0.8447	0.8216	0.7758	0.7252	0.7260	0.9355
	1								LSA	0.2494	0.1199 0.1520	0.1565 0.1165	0.0981	0.1015 0.1121	0.4511 0.4719
ı	I	l	I	I		I		l	DSA	0.2130	0.1320	0.1103	0.1073	0.1121	0.4/19

	Ī	I	ı	1 1	I . I	. 1		ĺ	MCP	0.2433	0.2146	0.2211	0.3023	0.3106	0.6707
16	CIFAR10	VGG16	CNN	10000	+AdapM	image	С	N+W	DeepGini	0.5449	0.5008	0.5135	0.4683	0.4388	0.6584
									PRIMA CertPri	0.3855 0.8612	0.3584 0.7835	0.3595 0.7676	0.3498 0.7444	0.3218 0.6837	0.4517 0.9341
									LSA	0.3692	0.2988	0.2568	0.2266	0.2228	0.6324
									DSA	0.3482	0.3027	0.2688	0.2637	0.2750	0.6276
17	ImageNet	ResNet101	CNN	5000	original	image	C	N+W	MCP DeepGini	0.3438 0.6305	0.3645 0.6167	0.3483 0.5893	0.4226 0.5637	0.4244 0.5303	0.7777 0.7955
									PRIMA	0.7078	0.6838	0.7225	0.5877	0.5909	0.7853
									CertPri	0.7412	0.7611	0.6604	0.6270	0.5917	0.8331
									LSA DSA	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
10	ImagaNat	ResNet101	CNN	5000	omiorimo]	imaga	С	N+B	MCP	0.3438	0.3645	0.3483	0.4226	0.4244	0.7777
10	ImageNet	Resiletiui	CININ	3000	original	image	C	N⊤D	DeepGini	0.6305	0.6167	0.5893	0.5637	0.5303	0.7955
									PRIMA CertPri	0.3779 0.7646	0.5201 0.7503	0.3896 0.6489	0.4002 0.6559	0.4019 0.5944	0.5740 0.8554
									LSA	0.6407	0.5990	0.5706	0.4604	0.4299	0.5147
									DSA	0.5670	0.5736	0.5645	0.5546	0.5377	0.5119
19	ImageNet	ResNet101	CNN	5000	+BIM	image	C	N+W	MCP DeepGini	0.5567 0.8140	0.7200 0.6681	0.5517 0.8069	0.6962 0.6793	0.6824 0.6472	0.4283 0.6060
									PRIMA	0.8522	0.7311	0.8829	0.6669	0.8529	0.6373
									CertPri	0.8446	0.8186	0.8367	0.9210	0.8345	0.9178
									LSA DSA	0.6220 0.6429	0.5852 0.7067	0.6376 0.7105	0.6469 0.5588	0.6183 0.5413	0.5978 0.5342
20	ImagaNat	ResNet101	CNN	5000	+C&W	imaga	С	N+W	MCP	0.5291	0.6371	0.6305	0.4669	0.4759	0.6760
20	ImageNet	Resiletiui	CININ	3000	+C&W	image	C	IN+ W	DeepGini	0.5985	0.6015	0.6258	0.6125	0.6119	0.7862
									PRIMA CertPri	0.9128 0.9626	0.8650 0.9397	0.8191 0.8322	0.8582 0.8091	0.8363 0.8572	0.6588 0.9148
		1							LSA	0.5800	0.5432	0.5408	0.6104	0.5944	0.5402
									DSA MCP	0.6872 0.5766	0.5728	0.6381	0.6397	0.5970	0.5072 0.5754
21	ImageNet	ResNet101	CNN	5000	FineFool	image	C	N+W	MCP DeepGini	0.5766	0.5887 0.7714	0.7631 0.6059	0.5767 0.5967	0.5499 0.5777	0.5754
									PRIMA	0.8093	0.8219	0.8365	0.8243	0.6576	0.6546
									CertPri	0.8249	0.9251	0.9413 0.1502	0.8199	0.9551 0.1797	0.9411 0.3049
									LSA DSA	0.2565 0.1603	0.0630 0.1401	0.1302	0.0282 0.1712	0.1797	0.3049
22	ImageNet	ResNet101	CNN	5000	+AdapS	image	С	N+W	MCP	0.2076	0.3021	0.3254	0.3572	0.4264	0.5907
	magerier	resitetioi	CIVIT	3000	17 Kuups	mage	Č	111.11	DeepGini PRIMA	0.5789 0.5002	0.5467 0.5138	0.3971 0.4072	0.4161 0.4908	0.4002 0.3426	0.7092 0.5087
									CertPri	0.7304	0.8013	0.6714	0.6062	0.6637	0.8562
									LSA	0.3105	0.2519	0.1519	0.1895	0.1056	0.5060
									DSA MCP	0.2968 0.0504	0.3376 0.0904	0.2193 0.1881	0.2166 0.0440	0.2567 0.1255	0.5307 0.3435
23	ImageNet	ResNet101	CNN	5000	+AdapC	image	C	N+W	DeepGini	0.1502	0.0723	0.1486	0.1136	0.1772	0.2329
									PRIMA	0.6012	0.5938	0.6129	0.5353	0.4478	0.7019
									CertPri LSA	0.8061 0.1704	0.7899 0.1312	0.7336 0.2059	0.6766 0.0922	0.6463 0.1056	0.8726 0.4625
									DSA	0.1406	0.1513	0.1091	0.1432	0.1353	0.5054
24	ImageNet	ResNet101	CNN	5000	+AdapM	image	С	N+W	MCP	0.2740	0.2178	0.1944	0.2647	0.3725	0.6925
	g						_		DeepGini PRIMA	0.5886 0.3165	0.4655 0.3662	0.4718 0.3348	0.4620 0.3639	0.4254 0.2912	0.6561 0.3880
									CertPri	0.8185	0.7394	0.6999	0.6817	0.6715	0.8390
									LSA	0.3559	0.2831	0.2342	0.2148	0.1989	0.6628
									DSA MCP	0.3014 0.3083	0.3071 0.3344	0.2997 0.3255	0.2372 0.4508	0.2734 0.4469	0.6309 0.7595
25	ImageNet	VGG19	CNN	5000	original	image	C	N+W	DeepGini	0.6537	0.6294	0.5586	0.5418	0.5536	0.7600
									PRIMA		Out of Time				
									CertPri LSA	0.7640 n/a	0.7783 n/a	0.6761 n/a	0.6701 n/a	0.5978 n/a	0.8348 n/a
									DSA	n/a		n/a		n/a	n/a
26	ImageNet	VGG19	CNN	5000	original	image	C	N+B	MCP DeepGini	0.3083 0.6537	0.3344 0.6294	0.3255 0.5586	0.4508 0.5418	0.4469 0.5536	0.7595 0.7600
									PRIMA	Out of Time					Out of Time
									CertPri	0.7683	0.7477	0.6760	0.6473	0.5967	0.8549
									LSA DSA	0.6184 0.5846	0.6165 0.6029	0.5852 0.5738	0.4906 0.5706	0.4306 0.5339	0.4843 0.4746
27	ImageNet	VGG19	CNN	5000	+BIM	image	С	N+W	MCP	0.5730	0.7077	0.5681	0.6973	0.6405	0.4106
41	magervet	1 0019	CININ	5000	DHVI	mage	C	141.00	DeepGini PRIMA	0.7868	0.6711	0.8069	0.6622 Out of Time	0.6188	0.6508
									CertPri	Out of Time 0.8619	Out of Time 0.8288	Out of Time 0.8634	0.9553	Out of Time 0.8289	Out of Time 0.8898
									LSA	0.5956	0.5789	0.6516	0.6477	0.6137	0.6427
									DSA MCP	0.6604 0.4988	0.7244 0.6225	0.6775 0.6061	0.5537 0.4424	0.5332 0.4397	0.5174 0.6365
28	ImageNet	VGG19	CNN	5000	+C&W	image	C	N+W	DeepGini	0.4988	0.6223	0.6103	0.6061	0.4397	0.6363
									PRIMA	Out of Time					
		1	1	1		1			CertPri LSA	0.9396 0.5676	0.9183 0.5712	0.7853 0.5204	0.8221 0.5786	0.8798 0.6378	0.8922 0.5158
									DSA	0.7133	0.5562	0.6768	0.6382	0.6309	0.5205
29	ImageNet	VGG19	CNN	5000	FineFool	image	С	N+W	MCP	0.5456	0.5653	0.7658	0.5416	0.5542	0.5404
-						-6-			DeepGini PRIMA	0.7674 Out of Time	0.7700 Out of Time	0.6046 Out of Time	0.5704 Out of Time	0.6033 Out of Time	0.5777 Out of Time
									CertPri	0.8224	0.9209	0.9420	0.8082	0.9485	0.9457
									LSA	0.2492	0.0689	0.1411	0.0382	0.1982	0.3282
_						.			DSA MCP	0.1808 0.1947	0.1366 0.3161	0.2854 0.3111	0.1601 0.3839	0.0785 0.4166	0.3155 0.6065
30	ImageNet	VGG19	CNN	5000	+AdapS	image	С	N+W	DeepGini	0.5940	0.5421	0.4218	0.4175	0.4226	0.7001
									PRIMA ContPui	Out of Time					
		1		+					CertPri LSA	0.7332 0.2886	0.7869 0.2395	0.6792 0.1707	0.5682 0.2222	0.6720 0.1302	0.8577 0.4840
									DSA	0.2973	0.3067	0.2200	0.2696	0.2398	0.5309
31	ImageNet	VGG19	CNN	5000	+AdapC	image	С	N+W	MCP DeepGini	0.0635	0.0769	0.1933	0.0138	0.1372	0.3539
						١			DeepGini PRIMA	0.1118 Out of Time	0.0885 Out of Time	0.1523 Out of Time	0.1158 Out of Time	0.1921 Out of Time	0.2724 Out of Time
									CertPri	0.8106	0.7904	0.7549	0.7072	0.6600	0.8870
		1	1						LSA	0.1735	0.1260	0.2245	0.0445	0.0970	0.4775

									DSA MCP	0.1394 0.2806	0.1815 0.1982	0.1393 0.2011	0.1334 0.2779	0.1443 0.3871	0.4978 0.6739
32	ImageNet	VGG19	CNN	5000	+AdapM	image	С	N+W	DeepGini	0.6010	0.4639	0.4918	0.4534	0.4338	0.6445
									PRIMA	Out of Time	Out of Time	Out of Time		Out of Time	Out of Time
									CertPri	0.7856	0.7835	0.6977	0.6314	0.6911	0.8127
									LSA	0.3638	0.4022	0.4124	0.4188	0.4843	0.6534
									DSA MCP	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
33	DrivingSA	VGG19-AD	CNN	5279	original	image	R	N+W	DeepGini	n/a	n/a	n/a	n/a	n/a	n/a
									PRIMA	0.8130	0.7905	0.7703	0.7529	0.7114	0.7715
									CertPri	0.8062	0.8520	0.8567	0.8387	0.8184	0.8506
									LSA	n/a	n/a	n/a	n/a	n/a	n/a
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
34	DrivingSA	VGG19-AD	CNN	5279	original	image	R	N+B	MCP	n/a	n/a	n/a	n/a	n/a	n/a
	g					8-			DeepGini	n/a	n/a	n/a	n/a	n/a	n/a
									PRIMA	0.4153	0.3916	0.3558	0.3609	0.3498 0.8307	0.4178
									CertPri LSA	0.7834 0.3324	0.8282 0.3334	0.7990 0.3720	0.8099 0.3716	0.8307	0.8481 0.6802
									DSA	0.3324 n/a	0.5554 n/a	n/a	0.5710 n/a	n/a	n/a
		******	co. p. r						MCP	n/a	n/a	n/a	n/a	n/a	n/a
35	DrivingSA	VGG19-AD	CNN	5279	patch	image	R	N+W	DeepGini	n/a	n/a	n/a	n/a	n/a	n/a
									PRIMA	0.8115	0.8112	0.7982	0.7840	0.7191	0.7787
									CertPri	0.8307	0.8115	0.8471	0.8366	0.7953	0.8634
									LSA	0.4291	0.4293	0.4576	0.4452	0.4740	0.6564
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
36	DrivingSA	VGG19-AD	CNN	5279	aturation	image	R	N+W	MCP	n/a	n/a	n/a	n/a	n/a	n/a
	Č					Č			DeepGini PRIMA	n/a 0.7509	n/a 0.7960	n/a 0.7761	n/a 0.7990	n/a 0.8333	n/a 0.8748
									CertPri	0.7309	0.7960	0.7761	0.7990	0.8333	0.8748
				<del>                                     </del>					LSA	0.3810	0.8267	0.5106	0.6537	0.7830	0.9509
									DSA	0.5018	0.5321	0.6163	0.7061	0.8535	0.9483
27	EMNIET	AlovNI-	CNINI	10000	ori-: 1		~	NT 1 337	MCP	0.4719	0.5772	0.6956	0.7365	0.8610	0.9035
5/	FMNIST	AlexNet	CNN	10000	original	image	С	N+W	DeepGini	0.4782	0.5911	0.6777	0.7667	0.8742	0.9434
									PRIMA	0.5003	0.5174	0.6104	0.7336	0.8254	0.9329
									CertPri	0.4863	0.5983	0.6745	0.8214	0.8122	0.9780
									LSA	0.4770	0.4240	0.3791	0.3252	0.2965	0.5774
									DSA	0.5817	0.4918	0.4575	0.3957	0.3971	0.6112
38	FMNIST_P	AlexNet-P	CNN	10000	original	image	C	P+W	MCP DeepGini	0.4479 0.5057	0.4990 0.4717	0.4647 0.4572	0.4901 0.4955	0.4087 0.3837	0.5440 0.5387
	_				-	-			PRIMA	0.9934	0.4717	0.4372	0.4933	0.3837	0.9920
									CertPri	0.9878	0.9707	0.9805	0.9725	0.9403	0.9920
									LSA	0.5824	n/a	n/a	n/a	n/a	0.6643
									DSA	0.6973	n/a	n/a	n/a	n/a	0.7088
20	A . D	WCC16 AD	CNINI	1.52				T : W	MCP	0.7483	n/a	n/a	n/a	n/a	0.7549
39	Ants_Bees	VGG16-AB	CNN	153	original	image	С	T+W	DeepGini	0.8532	n/a	n/a	n/a	n/a	0.8805
									PRIMA	0.9086	n/a	n/a	n/a	n/a	0.9401
									CertPri	0.9284	n/a	n/a	n/a	n/a	0.9496
									LSA	0.4198	0.3994	0.3761	0.4054	0.5892	0.6013
									DSA	0.5827 0.6657	0.5772 0.6566	0.5463 0.6516	0.5407 0.6743	0.7041 0.6894	0.7256
40	Cats_Dogs	VGG19-CD	CNN	5000	original	image	C	T+W	MCP DeepGini	0.7009	0.7032	0.0310	0.7364	0.7820	0.7206 0.8229
									PRIMA	0.8613	0.8209	0.8163	0.8060	0.8560	0.8824
									CertPri	0.7877	0.8222	0.8132	0.8625	0.8883	0.9583
									LSA	0.3740	0.4675	0.4524	0.5422	0.5694	0.7021
									DSA	0.4410	0.5615	0.6514	0.6644	0.6448	0.7475
41	IMDB	CNN-I	CNN	10000	original	text	С	N+W	MCP	0.6073	0.6977	0.7635	0.8314	0.8008	0.8146
71	INIDB	CIVIN-I	CIVIV	10000	Original	text	C	14 1 44	DeepGini	0.6466	0.7140	0.7812	0.8449	0.8134	0.8758
									PRIMA	0.6662	0.7467	0.8055	0.8569	0.8602	0.8971
									CertPri	0.7344	0.7262	0.7991	0.8817	0.8638	0.9514
									LSA DSA	0.0826 0.3782	0.1040 0.2733	0.0957 0.2232	0.1261 0.2567	0.1484 0.1941	0.4551 0.5132
									MCP	0.3778	0.2733	0.4321	0.2307	0.4018	0.7707
42	IMDB	LSTM-I	LSTM	10000	original	text	C	N+W	DeepGini	0.4137	0.4114	0.4321	0.4325	0.4018	0.8021
									PRIMA	0.5899	0.5413	0.5503	0.5248	0.4856	0.8019
	<u></u>	<u></u>	<u></u>				_		CertPri	0.6956	0.6417	0.6317	0.6258	0.5873	0.8950
									LSA	0.4101	0.5171	0.5021	0.5587	0.5690	0.7665
									DSA	0.4652	0.5702	0.6764	0.6400	0.6579	0.7571
43	Reuters	CNN-R	CNN	2246	original	text	С	N+W	MCP DeerGini	0.6135	0.6919	0.7709	0.8682	0.8103	0.8244
									DeepGini PRIMA	0.6466 0.6946	0.7416 0.6955	0.8373 0.7046	0.8710 0.8225	0.8201 0.8374	0.8926 0.8931
									CertPri	0.6946	0.6955	0.7046	0.8225	0.8374	0.8931
									LSA	0.7351	0.7478	0.8208	0.3802	0.2449	0.5328
									DSA	0.4150	0.2982	0.2257	0.3097	0.2974	0.5127
11	D out	LCTMP	I CTM	2246	ori-: 1		~	NT 1 337	MCP	0.4312	0.3916	0.4687	0.4647	0.4061	0.7593
44	Reuters	LSTM-R	LSTM	2246	original	text	С	N+W	DeepGini	0.4437	0.4432	0.4533	0.4206	0.4532	0.8217
									PRIMA	0.5821	0.5519	0.5714	0.6345	0.5296	0.7924
				ļ					CertPri	0.7117	0.7012	0.6589	0.6386	0.6392	0.8977
									LSA	0.3605	0.2400	0.5405	n/a	n/a	0.5903
									DSA MCP	0.3311 0.6040	0.3162 0.6095	0.5685 0.6890	n/a n/a	n/a n/a	0.5138 0.7771
45	VCTK10	LSTM-V	LSTM	400	original	speech	C	N+W	DeepGini	0.6346	0.6447	0.8028	n/a n/a	n/a n/a	0.7771
									PRIMA	0.4210	0.4765	0.8517	n/a	n/a	0.8952
									CertPri	0.7571	0.7726	0.8758	n/a	n/a	0.8467
									LSA	0.3600	0.3712	0.5904	n/a	n/a	0.6248
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
46	RML8PSK	LSTM-RML	LSTM	312	original	signal	R	N+W	MCP	n/a	n/a	n/a	n/a	n/a	n/a
40	MINITOI SK	LO I IVI-KIVIL	LO 1 1VI	312	original	aigiiai	ĸ	14 1. AA	DeepGini	n/a	n/a	n/a	n/a	n/a	n/a
									PRIMA	0.7330	0.7067	0.7373	n/a	n/a	0.7532
			-		-				CertPri LSA	0.8139 0.3510	0.8119 0.2605	0.8117 0.2375	n/a 0.2269	n/a 0.5973	0.8477 0.5973
									DSA	0.3310	0.2003	0.2373	0.2269	0.5457	0.5457
			l						MCP	0.5485	0.5969	0.2040	0.2310	0.7629	0.7629
17	Cora	GCN-C	GCN	1000	original	graph	С	N+W	DeepGini	0.6126	0.6150	0.5739	0.5609	0.8605	0.8605
4/				i	1			1			0.4475	0.4913	0.4809		
47						J			PRIMA	0.4127	0.4473	0.4913	0.4009	0.6556	0.6556

									LSA	0.4610	0.4905	0.4919	0.5582	0.4987	0.6608
									DSA	0.5151	0.5202	0.5121	0.5237	0.5314	0.7653
10	A .l14	LFCN-A	FCN	10000	:-1	structured	C	NI : XX	MCP	0.5863	0.5636	0.5577	0.5040	0.5567	0.7811
48	Adult	LFCN-A	FCN	10000	originai	tructured	C	IN+W	DeepGini	0.5278	0.5854	0.5688	0.5262	0.5452	0.8107
									PRIMA	0.6213	0.5959	0.6111	0.5655	0.5460	0.7826
									CertPri	0.6008	0.6091	0.5905	0.5754	0.5771	0.7917
									LSA	0.4719	0.5277	0.5027	0.5474	0.6462	0.6462
									DSA	0.5436	0.5441	0.5270	0.5141	0.7686	0.7686
10	COMPAS	HFCN-C	FCN	1000	original	structured	C	NI+W	MCP	0.5706	0.5913	0.5708	0.4741	0.7734	0.7734
49		III CIN-C	ren	1000	Original	inuctureu	C	14 1 44	DeepGini	0.5162	0.5871	0.5676	0.5440	0.8094	0.8094
									PRIMA	0.6002	0.5966	0.5866	0.5408	0.7748	0.7748
									CertPri	0.5869	0.6208	0.5905	0.6092	0.8264	0.8264
									LSA	0.6623	n/a	n/a	n/a	n/a	0.6636
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
50	Boston	FCN-B	FCN	102	original	structured	D	NI+W	MCP	n/a	n/a	n/a	n/a	n/a	n/a
50		I CN-B	ren	102	Original	inuctureu	K	14 1 44	MCP DeepGini	n/a	n/a	n/a	n/a	n/a	n/a
									PRIMA	0.7785	n/a	n/a	n/a	n/a	0.7681
									CertPri	0.8401	n/a	n/a	n/a	n/a	0.8607

D.4 Repeat 4th

D.4	Repeat	4th													
ID	Datasets	Models	Struc.	#Inputs	Types	Forms	Tas.	Sce.	Methods	RAUC-100	RAUC-200	RAUC-300	RAUC-500	RAUC-1000	RAUC-all
									LSA	0.3867	0.3040	0.2660	0.2525	0.2232	0.6496
									DSA	0.3681	0.3381	0.3086	0.2797	0.2726	0.6406
1	CIFAR10	ResNet50	CNN	10000	original	image	С	N+W	MCP	0.3565	0.3733	0.3454	0.4503	0.4371	0.8176
1	CII AICIO	Resireiso	CIVIV	10000	Original	mage		141 77	DeepGini	0.6633	0.6277	0.6049	0.5946	0.5781	0.8050
									PRIMA	0.8216	0.7882	0.7744	0.7581	0.6907	0.9432
									CertPri	0.8595	0.8154	0.8195	0.7380	0.7225	0.9377
									LSA	n/a	n/a	n/a	n/a	n/a	n/a
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
2	CIFAR10	ResNet50	CNN	10000	original	image	C	N+B	MCP	0.3565	0.3733	0.3454	0.4503	0.4371	0.8176
-	CHILLIO	1001100	01111	10000	ongman	mage	_	1,2	DeepGini	0.6633	0.6277	0.6049	0.5946	0.5781	0.8050
									PRIMA	0.4551	0.4211	0.4159	0.4021	0.4365	0.7131
									CertPri	0.8714	0.7963	0.8102	0.7452	0.7450	0.8887
									LSA	0.7757	0.7505	0.7328	0.6977	0.6739	0.7755
									DSA	0.8145	0.8351	0.8087	0.7871	0.7817	0.7303
3	CIFAR10	ResNet50	CNN	10000	+BIM	image	С	N+W	MCP	0.8610	0.8222	0.8505	0.7998	0.7864	0.6914
						8-	_		DeepGini	0.9578	0.9398	0.9454	0.9467	0.9209	0.9001
									PRIMA	0.9996	0.9946	0.9884	0.9730	0.9495	0.9397
									CertPri	0.9803	0.9856	0.9811	0.9664	0.9625	0.9571
									LSA	0.8464	0.8394	0.7975	0.7948	0.7663	0.7680
									DSA	0.8787	0.8495	0.8584	0.8164	0.7853	0.7708
4	CIFAR10	ResNet50	CNN	10000	+C&W	image	C	N+W	MCP	0.6245	0.7669	0.7282	0.7403	0.7415	0.7885
						Ŭ			DeepGini	0.8899	0.8596	0.9016	0.8810	0.9024	0.8783
									PRIMA	0.9943	0.9923	0.9647	0.9502	0.9395	0.9914
									CertPri	0.9826	0.9912	0.9874	0.9670	0.9708	0.9914
									LSA	0.8192	0.8100	0.7759	0.7265	0.7625	0.7700
									DSA	0.8297	0.8044	0.8098	0.7891	0.7546	0.7741
5	CIFAR10	ResNet50	CNN	10000	FineFool	image	C	N+W	MCP DeepGini	0.8594 0.9057	0.8498	0.8752	0.8229	0.8362 0.8621	0.8642
						ŭ			DeepGini PRIMA	0.9057	0.8998 0.9318	0.8745 0.9231	0.8916	0.8621	0.8721
								Ì	CertPri	0.9394		0.9231	0.9428	0.9493	0.9563 0.9814
		1	1	1				<b> </b>		0.9584	0.9613			0.9549	0.9814
								Ì	LSA DSA	0.2544	0.1634 0.1448	0.1313 0.1982	0.1141 0.1523	0.1214	0.3345
									MCP	0.2490	0.2354	0.1982	0.1323	0.0974	0.6713
6	CIFAR10	ResNet50	CNN	10000	+AdapS	image	C	N+W	DeepGini	0.2341	0.2334	0.2496	0.3499	0.3404	0.6425
									PRIMA	0.5657	0.5252	0.4881	0.5204	0.4070	0.6104
									CertPri	0.8438	0.3232	0.7833	0.7667	0.7072	0.9148
		+		1					LSA	0.3007	0.3270	0.7833	0.1815	0.7072	0.5344
									DSA	0.3007	0.2140	0.1575	0.1938	0.2019	0.5633
									MCP	0.1159	0.1222	0.1199	0.1449	0.1859	0.3025
7	CIFAR10	ResNet50	CNN	10000	+AdapC	image	C	N+W	DeepGini	0.1553	0.1508	0.1470	0.1854	0.1517	0.3088
									PRIMA	0.6172	0.5778	0.5580	0.5521	0.4740	0.6980
									CertPri	0.8499	0.8124	0.8089	0.7480	0.7164	0.9281
									LSA	0.2218	0.1084	0.1514	0.0923	0.1153	0.4736
									DSA	0.2149	0.1908	0.1301	0.1264	0.1089	0.4468
_							_		MCP	0.2467	0.2193	0.2224	0.3129	0.3252	0.6620
8	CIFAR10	ResNet50	CNN	10000	+AdapM	image	C	N+W	DeepGini	0.5478	0.4926	0.5153	0.4793	0.4346	0.6660
									PRIMA	0.3710	0.3701	0.3564	0.3524	0.3199	0.4582
									CertPri	0.8399	0.8066	0.7856	0.7492	0.7224	0.9314
									LSA	0.3849	0.2737	0.2575	0.2750	0.2484	0.6275
									DSA	0.3760	0.3109	0.2830	0.2788	0.2550	0.6290
9	CIFAR10	VGG16	CNN	10000	original	image	С	N+W	MCP	0.3399	0.3932	0.3784	0.4201	0.4657	0.7840
,	CII AICIO	V GG10	CIVIV	10000	Original	mage		141 77	DeepGini	0.6505	0.5960	0.6264	0.5811	0.5598	0.8452
									PRIMA	0.8287	0.7932	0.7403	0.7319	0.6982	0.9211
									CertPri	0.8597	0.8442	0.7955	0.7440	0.7069	0.9263
									LSA	n/a	n/a	n/a	n/a	n/a	n/a
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
10	CIFAR10	VGG16	CNN	10000	original	image	C	N+B	MCP Danie Cini	0.3399	0.3932	0.3784	0.4201	0.4657	0.7840
									DeepGini PRIMA	0.6505	0.5960 0.4445	0.6264 0.4473	0.5811 0.4280	0.5598	0.8452 0.6823
									CertPri	0.4820 0.8786	0.7916	0.4473	0.7676	0.3983 0.6967	0.8724
		+		1						0.7519	0.7247	0.7115	0.6636	0.6966	0.7713
									LSA DSA	0.7319	0.7247	0.7113	0.7950	0.7899	0.7609
									MCP	0.8318	0.8334	0.8263	0.7964	0.7624	0.6585
11	CIFAR10	VGG16	CNN	10000	+BIM	image	C	N+W	DeepGini	0.8318	0.8334	0.8263	0.7904	0.7624	0.8998
									PRIMA	0.9734	0.9792	0.9639	0.9223	0.9278	0.9454
									CertPri	0.9920	0.9537	0.9305	0.9323	0.9637	0.9434
			1					1	LSA	0.8428	0.8469	0.8186	0.7933	0.7474	0.7806
								Ì	DSA	0.8963	0.8487	0.8440	0.7943	0.7965	0.7634
	l							l .	MCP	0.6165	0.7462	0.7295	0.7362	0.7361	0.7511
12	CIFAR10	VGG16	CNN	10000	+C&W	image	C	N+W	DeepGini	0.8948	0.8820	0.8781	0.8887	0.9187	0.9009
								Ì	PRIMA	0.9662	0.9898	0.9256	0.9578	0.9412	0.9701
								Ì	CertPri	0.9253	0.9635	0.9545	0.9473	0.9491	0.9790
				1					LSA	0.7965	0.8035	0.7870	0.7750	0.7185	0.7393
								Ì	DSA	0.8154	0.8255	0.7859	0.7430	0.7620	0.7425
1 ~	CIEADAO	VCC16	CND	10000	Ein E		~	XT . ***	MCP	0.8232	0.8598	0.8949	0.8095	0.8249	0.8345
13	CIFAR10	VGG16	CNN	10000	FineFool	image	C	N+W	DeepGini	0.8672	0.9187	0.8905	0.8784	0.8640	0.8720
								Ì	PRIMA	0.9411	0.9496	0.9721	0.9697	0.9326	0.9522
	<u> </u>			<u>L</u>				L	CertPri	0.9382	0.9917	0.9643	0.9181	0.9799	0.9655
									LSA	0.2631	0.1466	0.1453	0.1048	0.0916	0.3612
								Ì	DSA	0.2034	0.1908	0.1817	0.1981	0.1052	0.3500
14	CIFAR10	VGG16	CNN	10000	+AdapS	image	С	N+W	MCP	0.2241	0.2376	0.2431	0.3599	0.3392	0.6669
14	OII AKTO	, 0010	CIVIN	10000	- Adaps	mage	C	14 1 44	DeepGini	0.5338	0.4718	0.4818	0.4714	0.4830	0.6798
									PRIMA	0.5218	0.5426	0.4441	0.5447	0.4374	0.5986
			1						CertPri	0.8671	0.8155	0.8168	0.7654	0.7417	0.8935
								Ì	LSA	0.3206	0.2049	0.2278	0.2070	0.1389	0.5442
								Ì	DSA	0.3156	0.2725	0.2702	0.1973	0.2105	0.5761
15	CIFAR10	VGG16	CNN	10000	+AdapC	image	C	N+W	MCP	0.0885	0.1516	0.1510	0.1143	0.1606	0.3009
-			1		т -			l	DeepGini	0.1354	0.1751	0.1034	0.1812	0.1626	0.2717
		1	1	1	i l			i .	PRIMA	0.6445	0.5842	0.5513	0.5404	0.4688	0.7103
					l	I					0.0000	0.7007	0.70//	0.7072	0.0050
			1						CertPri	0.8258	0.8220	0.7926	0.7266	0.7263	0.9370
											0.8220 0.1280 0.1720	0.7926 0.1558 0.1100	0.7266 0.1139 0.1346	0.7263 0.1004 0.0947	0.9370 0.4668 0.4704

	l	I	ı	1	l . I	. 1		I	MCP	0.2662	0.2148	0.2374	0.2687	0.3384	0.6782
16	CIFAR10	VGG16	CNN	10000	+AdapM	image	С	N+W	DeepGini	0.5421	0.5241	0.5031	0.4862	0.4363	0.6829
									PRIMA CertPri	0.3649 0.8809	0.3727 0.8100	0.3629 0.7577	0.3654 0.7414	0.2985 0.6985	0.4590 0.9307
									LSA	0.3507	0.2813	0.2641	0.2304	0.2263	0.6528
									DSA	0.3551	0.3021	0.2624	0.2608	0.2834	0.6412
17	ImageNet	ResNet101	CNN	5000	original	image	C	N+W	MCP DeepGini	0.3631 0.6341	0.3852 0.6239	0.3265 0.5795	0.4227 0.5599	0.4552 0.5459	0.7990 0.7878
									PRIMA	0.7255	0.6946	0.6983	0.5945	0.5762	0.7915
									CertPri	0.7480	0.7482	0.6599	0.6342	0.6135	0.8292
									LSA DSA	n/a n/a		n/a n/a	n/a n/a	n/a n/a	n/a n/a
10	ImagaNat	ResNet101	CNN	5000	omiorimo]	imaga	С	N+B	MCP	0.3631	0.3852	0.3265	0.4227	0.4552	0.7990
10	ImageNet	Residenti	CININ	3000	original	image	C	N⊤D	DeepGini	0.6341	0.6239	0.5795	0.5599	0.5459	0.7878
									PRIMA CertPri	0.3618 0.7583	0.5293 0.7574	0.4089 0.6436	0.3861 0.6644	0.4067 0.5811	0.5513 0.8484
									LSA	0.6398	0.6196	0.5904	0.4687	0.4438	0.4962
									DSA	0.5631	0.5699	0.5542	0.5619	0.5326	0.5021
19	ImageNet	ResNet101	CNN	5000	+BIM	image	C	N+W	MCP DeepGini	0.5691 0.8178	0.7050 0.6739	0.5702 0.8226	0.6961 0.6471	0.6542 0.6282	0.4023 0.6325
									PRIMA	0.8328	0.7263	0.9159	0.6892	0.8537	0.6519
									CertPri	0.8269	0.8222	0.8289	0.9216	0.8170	0.9190
									LSA DSA	0.6018 0.6384	0.5556 0.6865	0.6422 0.6962	0.6428 0.5707	0.6225 0.5086	0.6065 0.5492
20	ImagaNat	ResNet101	CNN	5000	+C&W	imaga	С	N+W	MCP	0.5313	0.6301	0.6397	0.4808	0.4542	0.6920
20	ImageNet	Residenti	CININ	3000	+C&W	image	C	IN+ W	DeepGini	0.6030	0.6044	0.6096	0.6178	0.5964	0.7578
									PRIMA CertPri	0.9307 0.9500	0.8852 0.9370	0.8073 0.8278	0.8365 0.8150	0.8593 0.8405	0.6832 0.9334
									LSA	0.5582	0.5454	0.5455	0.5794	0.6062	0.5229
									DSA	0.6820	0.5464	0.6417	0.6309	0.5902	0.5343
21	ImageNet	ResNet101	CNN	5000	FineFool	image	C	N+W	MCP DeepGini	0.5876 0.7781	0.5798 0.7662	0.7325 0.6137	0.5666 0.6020	0.5581 0.6091	0.5624 0.5993
									PRIMA	0.8298	0.8345	0.8431	0.8484	0.6451	0.6620
									CertPri	0.8290	0.8980	0.9294	0.8190	0.9271	0.9345
									LSA DSA	0.2461 0.1545	0.0797 0.1561	0.1284 0.2699	0.0327 0.1882	0.1930 0.0616	0.3058 0.3181
22	ImageNet	ResNet101	CNN	5000	+AdapS	imaga	С	N+W	MCP	0.2085	0.3092	0.3019	0.3423	0.4170	0.5939
22	imagenet	Residenti	CININ	3000	+Auap3	image	C	IN+ W	DeepGini	0.5823	0.5639 0.5269	0.4040	0.4149	0.3862	0.6841
									PRIMA CertPri	0.4905 0.7149	0.3269	0.4176 0.6876	0.4806 0.6147	0.3220 0.6455	0.5082 0.8609
									LSA	0.3207	0.2448	0.1677	0.2200	0.1343	0.5101
									DSA MCP	0.3080 0.0520	0.3382 0.1016	0.2446 0.1796	0.2209 0.0167	0.2545 0.1156	0.5101 0.3564
23	ImageNet	ResNet101	CNN	5000	+AdapC	image	C	N+W	DeepGini	0.0320	0.1016	0.1790	0.0107	0.2009	0.3364
									PRIMA	0.5997	0.6088	0.6001	0.5146	0.4222	0.6800
			-						CertPri LSA	0.8303 0.1928	0.7880 0.1463	0.7554 0.1933	0.6804 0.0717	0.6596 0.1062	0.8402 0.4500
									DSA	0.1928	0.1403	0.1933	0.0717	0.1002	0.4300
24	ImageNet	ResNet101	CNN	5000	+AdapM	image	С	N+W	MCP	0.2868	0.2255	0.1817	0.2800	0.3835	0.6906
	magerier	resiverior	CIVIT	3000	· / taapivi	mage	Č	111.11	DeepGini PRIMA	0.5688 0.3266	0.4716 0.3796	0.4714 0.3279	0.4685 0.3684	0.4124 0.3057	0.6540 0.4164
									CertPri	0.3200	0.3790	0.3279	0.6699	0.6485	0.4164
									LSA	0.3755	0.3119	0.2544	0.2216	0.2202	0.6664
									DSA MCP	0.3143 0.3283	0.3202 0.3350	0.2830 0.3269	0.2372 0.4539	0.2516 0.4675	0.6268 0.7887
25	ImageNet	VGG19	CNN	5000	original	image	С	N+W	DeepGini	0.6531	0.6368	0.5350	0.5312	0.5652	0.7505
									PRIMA		Out of Time				
		-	-						CertPri LSA	0.7492 n/a	0.7569 n/a	0.6561 n/a	0.6652 n/a	0.6042 n/a	0.8430 n/a
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
26	ImageNet	VGG19	CNN	5000	original	image	С	N+B	MCP	0.3283	0.3350	0.3269	0.4539	0.4675	0.7887
						Ü			DeepGini PRIMA	0.6531 Out of Time	0.6368 Out of Time	0.5350 Out of Time	0.5312 Out of Time	0.5652 Out of Time	0.7505 Out of Time
									CertPri	0.7622	0.7750	0.6595	0.6550	0.5825	0.8836
									LSA	0.6366	0.6163	0.5792	0.4756	0.4243	0.4818
2-		110010	CD F :				-	.,,,,,,	DSA MCP	0.5668 0.5626	0.6000 0.6867	0.5819 0.5733	0.5476 0.7019	0.5347 0.6390	0.4815 0.4014
27	ImageNet	VGG19	CNN	5000	+BIM	image	С	N+W	DeepGini	0.8085	0.6776	0.8010	0.6861	0.6113	0.6339
									PRIMA CertPri	Out of Time 0.8753	Out of Time 0.8370	Out of Time 0.8691	Out of Time 0.9407	Out of Time 0.8466	Out of Time 0.8852
		1							LSA	0.8753	0.8370	0.8691	0.9407	0.8466	0.8852
									DSA	0.6365	0.7416	0.6963	0.5578	0.5143	0.5204
28	ImageNet	VGG19	CNN	5000	+C&W	image	C	N+W	MCP DeepGini	0.4975 0.5619	0.6081 0.5741	0.6125 0.6179	0.4618 0.6066	0.4522 0.6049	0.6584 0.7677
									PRIMA	Out of Time					
									CertPri	0.9711	0.9382	0.8152	0.8324	0.8824	0.9219
	]					Ī			LSA DSA	0.5473 0.7055	0.5709 0.5688	0.5455 0.6693	0.5746 0.6210	0.6343 0.6396	0.5103 0.5215
20	I N. :	VCC10	CND	5000	Ein E		~	NT: TY	MCP	0.7633	0.5872	0.7534	0.5348	0.5699	0.5342
29	ImageNet	VGG19	CNN	5000	FineFool	image	С	N+W	DeepGini	0.7573	0.7806	0.6109	0.5739	0.6168	0.5780
									PRIMA CertPri	Out of Time 0.8431	Out of Time 0.9242	Out of Time 0.9234	Out of Time 0.8267	Out of Time 0.9322	Out of Time 0.9192
									LSA	0.2210	0.9242	0.9234	0.0261	0.9322	0.3065
									DSA	0.1562	0.1171	0.2858	0.1423	0.0538	0.2848
	ImageNet	VGG19	CNN	5000	+AdapS	image	C	N+W	MCP DeepGini	0.1946 0.5898	0.2952 0.5483	0.3133 0.4127	0.3704 0.3965	0.4061 0.4266	0.5954 0.7029
30		1				-			PRIMA	Out of Time					
30									CertPri	0.7267	0.8107	0.6950	0.5745	0.6856	0.8674
30									T C 4			,			
30									LSA DSA	0.2904	0.2299	0.1831	0.2202	0.1266 0.2497	0.4993
		VCC10	CNINI	5000	1A1- C	i	~	XI : W	LSA DSA MCP	0.2904 0.3306 0.0304	0.2299 0.3134 0.0892	0.1831 0.2282 0.2010	0.2202 0.2430 0.0106	0.1266 0.2497 0.1616	0.4993 0.5299 0.3515
	ImageNet	VGG19	CNN	5000	+AdapC	image	С	N+W	DSA MCP DeepGini	0.3306 0.0304 0.1384	0.3134 0.0892 0.0872	0.2282 0.2010 0.1643	0.2430 0.0106 0.1368	0.2497 0.1616 0.1926	0.5299 0.3515 0.2719
		VGG19	CNN	5000	+AdapC	image	С	N+W	DSA MCP	0.3306 0.0304	0.3134 0.0892 0.0872	0.2282 0.2010 0.1643	0.2430 0.0106 0.1368	0.2497 0.1616	0.5299 0.3515

									DSA MCP	0.1581 0.2880	0.1609 0.2147	0.1333 0.2108	0.1275 0.2994	0.1442 0.3884	0.4965 0.6741
32	ImageNet	VGG19	CNN	5000	+AdapM	image	C	N+W	DeepGini	0.5750	0.4777	0.5021	0.4654	0.4008	0.6495
									PRIMA	Out of Time				Out of Time	Out of Time
									CertPri	0.8120	0.7514	0.7243	0.6567	0.6889	0.8053
									LSA	0.3591	0.3904	0.4063	0.4136	0.4624	0.6462
									DSA	n/a		n/a	n/a	n/a	n/a
33	DrivingSA	VGG19-AD	CNN	5279	original	image	R	N+W	MCP	n/a	n/a	n/a	n/a	n/a	n/a
					0	8			DeepGini	n/a		n/a	n/a	n/a	n/a
									PRIMA CertPri	0.8233 0.7978	0.7850 0.8258	0.7553 0.8557	0.7261 0.8229	0.7116 0.7899	0.7806 0.8425
									LSA	0.7978 n/a		0.8337 n/a		0.7899 n/a	
									DSA	n/a		n/a	n/a n/a	n/a	n/a n/a
									MCP	n/a		n/a	n/a	n/a	n/a
34	DrivingSA	VGG19-AD	CNN	5279	original	image	R	N+B	DeepGini	n/a	n/a	n/a	n/a	n/a	n/a
									PRIMA	0.3930	0.4037	0.3649	0.3808	0.3561	0.4112
									CertPri	0.7992	0.8284	0.8154	0.8024	0.8214	0.8710
									LSA	0.3313	0.3636	0.3700	0.3559	0.4356	0.6860
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
25	D GA	VICC10 AD	CNDI	5270			D	NT : 337	MCP	n/a	n/a	n/a	n/a	n/a	n/a
33	DrivingSA	VGG19-AD	CNN	5279	patch	image	R	N+W	DeepGini	n/a	n/a	n/a	n/a	n/a	n/a
									PRIMA	0.8251	0.8299	0.8228	0.7875	0.7221	0.7877
									CertPri	0.8190	0.8378	0.8536	0.8510	0.8064	0.8507
									LSA	0.4292	0.4192	0.4727	0.4657	0.4872	0.6634
									DSA	n/a		n/a	n/a	n/a	n/a
36	DrivingSA	VGG19-AD	CNN	5279	aturation	image	R	N+W	MCP	n/a		n/a	n/a	n/a	n/a
						8-			DeepGini	n/a		n/a	n/a	n/a	n/a
			[					Ì	PRIMA Cont Pui	0.7704	0.7818	0.7894	0.7972	0.8323	0.8648
				<u> </u>				<u> </u>	CertPri	0.7899	0.8129	0.8191	0.8038	0.8118	0.8854
									LSA DSA	0.3809 0.4780	0.4395 0.5236	0.5007 0.6263	0.6417	0.8102 0.8548	0.9155 0.9661
			1	1				ĺ	MCP	0.4780	0.5236	0.6263	0.7266 0.7218	0.8548	0.9661
37	FMNIST	AlexNet	CNN	10000	original	image	C	N+W	DeepGini	0.4846	0.5705	0.6702	0.7218	0.8505	0.8872
			1	1		_		ĺ	PRIMA	0.4846	0.5471	0.6702	0.7724	0.8549	0.9533
			[					Ì	CertPri	0.4783	0.5831	0.6895	0.7218	0.8349	0.9333
									LSA	0.4538	0.4036	0.3780	0.3316	0.3024	0.5842
									DSA	0.5896	0.5088	0.4719	0.3956	0.4010	0.6187
							_		MCP	0.4569	0.4818	0.4595	0.4567	0.3910	0.5390
38	FMNIST_P	AlexNet-P	CNN	10000	original	image	C	P+W	DeepGini	0.4966	0.4897	0.4569	0.4978	0.3678	0.5528
									PRIMA	0.9988	0.9749	0.9879	0.9980	0.9426	0.9392
									CertPri	0.9900	0.9855	0.9843	0.9927	0.9712	0.9839
									LSA	0.5780	n/a	n/a	n/a	n/a	0.6643
									DSA	0.6793	n/a	n/a	n/a	n/a	0.6772
39	Ante Base	VGG16-AB	CNN	153	original	imaga	С	T+W	MCP	0.7630	n/a	n/a	n/a	n/a	0.7716
39	Ants_Bees	VGG10-AB	CIVIN	133	original	image	C	1 T VV	DeepGini	0.8769	n/a	n/a	n/a	n/a	0.9037
									PRIMA	0.9113	n/a	n/a	n/a	n/a	0.9473
									CertPri	0.9498	n/a	n/a	n/a	n/a	0.9818
									LSA	0.4259	0.3840	0.3846	0.4021	0.6114	0.6017
									DSA	0.5890	0.5915	0.5440	0.5279	0.6934	0.6959
40	Cats Dogs	VGG19-CD	CNN	5000	original	image	C	T+W	MCP DCii	0.6422	0.6266	0.6451	0.6729	0.7002	0.7095
						·			DeepGini PRIMA	0.6994 0.8380	0.6973 0.8091	0.7097 0.7980	0.7338	0.7913 0.8611	0.8142 0.8840
									CertPri	0.8380	0.8091	0.7980	0.7879 0.8532	0.8895	0.8840
		-							LSA	0.7973	0.4725	0.8582	0.8332	0.5628	0.7195
									DSA	0.4513	0.5593	0.4532	0.6486	0.5028	0.7193
									MCP	0.6051	0.7051	0.7546	0.8095	0.7930	0.7962
41	IMDB	CNN-I	CNN	10000	original	text	C	N+W	DeepGini	0.6550	0.6946	0.7992	0.8503	0.8301	0.8669
									PRIMA	0.6666	0.7352	0.7988	0.8656	0.8676	0.8885
									CertPri	0.7375	0.7495	0.8050	0.8857	0.8430	0.9211
									LSA	0.0996	0.0896	0.1092	0.1158	0.1184	0.4425
									DSA	0.3668	0.2704	0.2387	0.2632	0.1935	0.5052
12	IMDB	LSTM-I	LSTM	10000	original	toyt	С	N+W	MCP	0.3963	0.3938	0.4271	0.4363	0.4146	0.7742
<b>+</b> ∠	TIVIDD	LO 1 IVI-1	LOIVI	10000	original	text	C	14± W	DeepGini	0.3892	0.4110	0.4388	0.4334	0.4320	0.8069
			1	1				ĺ	PRIMA	0.5931	0.5750	0.5275	0.5294	0.4988	0.8201
									CertPri	0.6896	0.6519	0.6595	0.6201	0.6044	0.8921
			[					Ì	LSA	0.3867	0.5032	0.4823	0.5630	0.5592	0.7371
			1	1				ĺ	DSA MCP	0.4882 0.6098	0.5807	0.6759 0.7821	0.6727	0.6556	0.7644 0.8170
43	Reuters	CNN-R	CNN	2246	original	text	C	N+W	MCP DeepGini	0.6408	0.7103 0.7534	0.7821	0.8707 0.8926	0.8160 0.8244	0.8170
			1	1				ĺ	PRIMA	0.0408	0.7334	0.8378	0.8920	0.8404	0.8925
									CertPri	0.7691	0.7806	0.7123	0.8223	0.8497	0.8923
			1	t				1	LSA	0.2040	0.2893	0.2505	0.3003	0.2612	0.5072
			1	1				ĺ	DSA	0.3994	0.2823	0.2530	0.3297	0.3203	0.5213
4.4	D	LCTMP	I CTL	22.45			~	XT . ***	MCP	0.4098	0.3948	0.4428	0.4580	0.4092	0.7700
44	Reuters	LSTM-R	LSTM	2246	original	text	С	N+W	DeepGini	0.4208	0.4531	0.4313	0.4475	0.4401	0.8095
			[					Ì	PRIMA	0.6023	0.5754	0.5474	0.6444	0.5382	0.7814
			<u> </u>	<u> </u>				<u> </u>	CertPri	0.7022	0.7032	0.6797	0.6408	0.6428	0.8951
			I					1	LSA	0.3605	0.2370	0.5434	n/a	n/a	0.5847
			[					Ì	DSA	0.3112	0.2946	0.5888	n/a	n/a	0.5189
45	VCTK10	LSTM-V	LSTM	400	original	speech	С	N+W	MCP	0.5864	0.6052	0.7126	n/a	n/a	0.7762
				100	5/1141	-peson	_	"	DeepGini	0.6228	0.6335	0.7861	n/a	n/a	0.8667
			1	1				ĺ	PRIMA ContPui	0.4252	0.5022	0.8449	n/a	n/a	0.8807
		<del>                                     </del>		1				<b> </b>	CertPri LSA	0.7294 0.3558	0.7818 0.3728	0.8418 0.5971	n/a n/a	n/a n/a	0.8520 0.6310
			1	1				ĺ	DSA	0.3338 n/a		0.3971 n/a	n/a n/a	n/a n/a	0.6310 n/a
			[					Ì	MCP	n/a		n/a	n/a	n/a	n/a
46	RML8PSK	LSTM-RML	LSTM	312	original	signal	R	N+W	DeepGini	n/a		n/a	n/a	n/a	n/a
									PRIMA	0.7342	0.7149	0.7109	n/a	n/a	0.7671
			[					Ì	CertPri	0.8207	0.7875	0.8117	n/a	n/a	0.8529
		1							LSA	0.3402	0.2479	0.2313	0.2123	0.5871	0.5871
		ì	ĺ	1				Ì	DSA	0.3271	0.2920	0.2814	0.2401	0.5186	0.5186
A.77	Coms	CCNC	CCN	1000	or:-: 1	1	~	NT : 337	MCP	0.5259	0.5722	0.6009	0.5039	0.7344	0.7344
47	Cora	GCN-C	GCN	1000	original	graph	C	N+W	MCP DeepGini	0.5259 0.6344	0.5722 0.6146	0.6009 0.5900	0.5039 0.5580	0.7344 0.8375	0.7344 0.8375
47	Cora	GCN-C	GCN	1000	original	graph	С	N+W							

									LSA	0.4765	0.5000	0.4869	0.5370	0.5091	0.6601
									DSA	0.5253	0.5413	0.5175	0.5280	0.5333	0.7726
10	Adult	LFCN-A	FCN	10000	:-1	tructured	C	NI IN	, MCP	0.6012	0.5714	0.5697	0.4895	0.5526	0.7949
48	Adult	LFCN-A	FCN	10000	originai	iructurea	C	IN+W	DeepGini	0.5354	0.5906	0.5571	0.5409	0.5702	0.7870
									PRIMA	0.6048	0.5776	0.5851	0.5762	0.5469	0.7811
									CertPri	0.5911	0.6140	0.6086	0.6047	0.5906	0.8156
									LSA	0.4778	0.5246	0.5085	0.5634	0.6411	0.6411
	COMPAS HE								DSA	0.5247	0.5553	0.5534	0.5016	0.7466	0.7466
10	COMPAS	HFCN-C	FCN	1000	original	tructured	C	NI+W	MCP	0.5623	0.5920	0.5818	0.4868	0.7556	0.7556
47	COMI AS	III CIN-C	ren	1000	Original	structured	C	14 1 44	DeepGini	0.5261	0.5895	0.5391	0.5484	0.8185	0.8185
									PRIMA	0.5801	0.5920	0.5702	0.5493	0.7843	0.7843
									CertPri	0.5719	0.6149	0.6049	0.5956	0.8105	0.8105
									LSA	0.6580	n/a	n/a	n/a	n/a	0.6644
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
50	Boston F	FCN-B	FCN	102	original	tructured	D	NI+W	MCP	n/a	n/a	n/a	n/a	n/a	n/a
50	Doston	ren-b	ren	102	Original	structured	K	14 1 44	MCP DeepGini	n/a	n/a	n/a	n/a	n/a	n/a
									PRIMA	0.7851	n/a	n/a	n/a	n/a	0.7773
									CertPri	0.8467	n/a	n/a	n/a	n/a	0.8734

# D.5 Repeat 5th

D.5	5 Repeat	t 5th													
ID	Datasets	Models	Struc.	#Inputs	Types	Forms	Tas.	Sce.	Methods	RAUC-100	RAUC-200	RAUC-300	RAUC-500		RAUC-all
									LSA	0.4097	0.2783	0.2455	0.2573	0.2534	0.6340
	1	1		1					DSA	0.3711	0.3454	0.3144	0.2616	0.2818	0.6320
1	CIFAR10	ResNet50	CNN	10000	original	image	С	N+W	MCP	0.3796	0.3527	0.3385	0.4373	0.4478	0.8087
1	CII AICIO	Resireiso	CIVIV	10000	Original	image		14.44	DeepGini	0.6464	0.6399	0.6212	0.5938	0.5730	0.8200
									PRIMA	0.8406	0.8011	0.7747	0.7798	0.6920	0.9479
									CertPri	0.8715	0.8081	0.8118	0.7700	0.7362	0.9390
									LSA	n/a	n/a	n/a	n/a	n/a	n/a
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
2	CIFAR10	ResNet50	CNN	10000	original	image	C	N+B	MCP	0.3796	0.3527	0.3385	0.4373	0.4478	0.8087
-	CHARCIO	Resirenso	CIVIT	10000	originar	image	·	111.15	DeepGini	0.6464	0.6399	0.6212	0.5938	0.5730	0.8200
									PRIMA	0.4576	0.4283	0.4078	0.4006	0.4102	0.7096
									CertPri	0.8600	0.8195	0.8123	0.7596	0.7186	0.8874
									LSA	0.7683	0.7743	0.7381	0.7075	0.6760	0.7511
									DSA	0.8294	0.8274	0.8359	0.8185	0.7767	0.7404
3	CIFAR10	ResNet50	CNN	10000	+BIM	image	С	N+W	MCP	0.8596	0.8161	0.8267	0.8064	0.7845	0.7042
	CHIMCIO	Resirees	CIVII	10000		mage		14. 11	DeepGini	0.9541	0.9438	0.9523	0.9499	0.9250	0.8973
									PRIMA	1.0000	1.0000	1.0000	0.9668	0.9442	0.9594
									CertPri	0.9916	0.9886	0.9892	0.9736	0.9809	0.9451
									LSA	0.8739	0.8106	0.7971	0.7795	0.7709	0.7784
									DSA	0.8890	0.8668	0.8461	0.8106	0.7611	0.7719
4	CIFAR10	ResNet50	CNN	10000	+C&W	image	C	N+W	MCP	0.6377	0.7428	0.7581	0.7391	0.7433	0.7912
•	CHIMITO	1001100	01111	10000		50	_	1111	DeepGini	0.8749	0.8662	0.8946	0.8680	0.8774	0.9027
									PRIMA	1.0000	1.0000	0.9545	0.9438	0.9438	0.9876
									CertPri	0.9920	0.9702	0.9615	0.9624	0.9616	0.9718
									LSA	0.8389	0.8048	0.7790	0.7254	0.7575	0.7846
									DSA	0.8369	0.8041	0.8032	0.7798	0.7445	0.7669
5	CIFAR10	ResNet50	CNN	10000	FineFool	image	С	N+W	MCP	0.8698	0.8659	0.8791	0.8495	0.8480	0.8663
J	21.71110	100011000	2111	10000	2 001	mage	_	*****	DeepGini	0.8913	0.8894	0.8913	0.8909	0.8628	0.8878
	1	1		1					PRIMA	0.9401	0.9294	0.9511	0.9385	0.9336	0.9421
									CertPri	0.9527	0.9727	0.9909	0.9694	0.9875	0.9997
									LSA	0.2521	0.1634	0.1181	0.1352	0.1244	0.3598
	1	1		1					DSA	0.2169	0.1640	0.2071	0.1686	0.1051	0.3437
6	CIFAR10	ResNet50	CNN	10000	+AdapS	image	С	N+W	MCP	0.2206	0.2428	0.2486	0.3339	0.3158	0.6718
0	CHARCIO	Resirenso	CIVII	10000	· / idapo	image	·	14. 11	DeepGini	0.5564	0.4723	0.4795	0.4847	0.4498	0.6501
									PRIMA	0.5387	0.5522	0.4862	0.4992	0.3875	0.5981
									CertPri	0.8747	0.8192	0.7902	0.7355	0.7336	0.9165
									LSA	0.3209	0.2107	0.1767	0.1962	0.1361	0.5542
									DSA	0.2937	0.2650	0.2649	0.1980	0.1831	0.5767
7	CIFAR10	ResNet50	CNN	10000	+AdapC	image	С	N+W	MCP	0.1283	0.1287	0.1349	0.1484	0.1687	0.2976
					1				DeepGini	0.1640	0.1405	0.1603	0.1995	0.1439	0.3009
									PRIMA	0.6070	0.5675	0.5757	0.5508	0.4698	0.6853
			<u> </u>						CertPri	0.8610	0.8136	0.8057	0.7663	0.7046	0.9024
									LSA	0.2097	0.1021	0.1713	0.0970	0.1166	0.4690
									DSA	0.2052	0.1786	0.1284	0.1423	0.1255	0.4588
8	CIFAR10	ResNet50	CNN	10000	+AdapM	image	C	N+W	MCP	0.2255	0.2027	0.2330	0.3235	0.3116	0.6532
						8-			DeepGini	0.5445	0.5011	0.5035	0.4889	0.4492	0.6598
									PRIMA	0.3700	0.3481	0.3541	0.3497	0.3105	0.4586
									CertPri	0.8594	0.8279	0.7917	0.7567	0.7328	0.9319
									LSA	0.4086	0.2912	0.2477	0.2536	0.2441	0.6236
									DSA	0.3426	0.2976	0.2838	0.2826	0.2685	0.6599
9	CIFAR10	VGG16	CNN	10000	original	image	C	N+W	MCP	0.3489	0.3724	0.3751	0.4348	0.4569	0.7672
						Ü			DeepGini	0.6518	0.5959	0.6297	0.5927	0.5584	0.8128
									PRIMA	0.8260	0.7764	0.7608 0.7727	0.7397 0.7362	0.7030	0.8996
		-	+					<u> </u>	CertPri	0.8665	0.8316			0.7119	0.9124
									LSA DSA	n/a	n/a	n/a	n/a	n/a	n/a
										n/a 0.3489	n/a 0.3724	n/a 0.3751	n/a 0.4348	n/a 0.4569	n/a 0.7672
10	CIFAR10	VGG16	CNN	10000	original	image	C	N+B	MCP DeepGini	0.6518	0.5959	0.6297	0.5927	0.4369	0.7672
									PRIMA	0.4504	0.4234	0.0297	0.3927	0.3855	0.6755
									CertPri	0.8877	0.7998	0.7900	0.7588	0.7016	0.8779
_			+	<u> </u>					LSA	0.7658	0.7392	0.7302	0.6681	0.7158	0.7774
	1	1		1					DSA	0.8392	0.7392	0.7302	0.8027	0.7138	0.7774
	1	1		1					MCP	0.8392	0.7834	0.8181	0.7847	0.7637	0.7850
11	CIFAR10	VGG16	CNN	10000	+BIM	image	C	N+W	DeepGini	0.8282	0.9564	0.9574	0.9233	0.7037	0.0733
	1	1		1					PRIMA	0.9953	0.9670	0.9473	0.9426	0.9678	0.9333
	1	1		1					CertPri	0.9857	0.9555	0.9255	0.9080	0.9601	0.9537
	t	1	1	1					LSA	0.8564	0.8375	0.8377	0.7969	0.7461	0.8005
									DSA	0.8670	0.8652	0.8537	0.7901	0.8141	0.7424
	om:-								MCP	0.6066	0.7637	0.7442	0.7352	0.7425	0.7513
12	CIFAR10	VGG16	CNN	10000	+C&W	image	C	N+W	DeepGini	0.9113	0.8907	0.8930	0.8823	0.9052	0.8852
	1	1		1					PRIMA	0.9763	0.9950	0.8973	0.9307	0.9392	0.9519
	1	1		1					CertPri	0.9220	0.9593	0.9803	0.9462	0.9708	0.9592
			1						LSA	0.8143	0.7814	0.7851	0.7760	0.7268	0.7349
	1	1		1					DSA	0.8162	0.8116	0.7776	0.7602	0.7938	0.7556
12	CIEADAO	VCC16	CNINT	10000	pi p	,	~	NT : ***	MCP	0.8251	0.8697	0.8695	0.8179	0.8365	0.8517
13	CIFAR10	VGG16	CNN	10000	FineFool	image	C	N+W	DeepGini	0.8600	0.9195	0.8692	0.8529	0.8638	0.9009
	1	1		1					PRIMA	0.9580	0.9700	0.9674	0.9689	0.9086	0.9498
	1	1		1					CertPri	0.9343	0.9827	0.9841	0.9176	0.9886	0.9639
									LSA	0.2559	0.1580	0.1333	0.0954	0.1211	0.3642
	1	1		1					DSA	0.2229	0.1798	0.1833	0.2006	0.0806	0.3406
1.4	CIEAD 10	VCC16	CNN	10000	± 4 0	i	_	NI : W	MCP	0.2430	0.2572	0.2324	0.3555	0.3689	0.6629
14	CIFAR10	VGG16	CNN	10000	+AdapS	image	С	N+W	DeepGini	0.5321	0.4749	0.4696	0.4497	0.4780	0.6722
	1	1		1					PRIMA	0.5371	0.5558	0.4470	0.5292	0.4230	0.6220
	1	1		1					CertPri	0.8685	0.8278	0.8291	0.7667	0.7461	0.8906
									LSA	0.3176	0.2114	0.2089	0.2099	0.1663	0.5323
	1	1		1					DSA	0.3269	0.2817	0.2568	0.2231	0.2212	0.5813
15	CIFAR10	VGG16	CNN	10000	+AdapC	image	С	N+W	MCP	0.1014	0.1404	0.1361	0.1143	0.1327	0.2871
13	OH AINTO	, 5010	C1414	10000	· A scape	mage	C	11.44	DeepGini	0.1431	0.1679	0.1122	0.2126	0.1638	0.2749
									PRIMA	0.6262	0.5754	0.5303	0.5261	0.4694	0.6838
									CertPri	0.8439	0.8029	0.7680	0.7549	0.7501	0.9175
_	l	1		1					LSA	0.2231	0.1163	0.1542	0.1157	0.1084	0.4564
				1					DSA	0.2221	0.1800	0.0875	0.1189	0.1216	0.4695

	lom, n.e.	l	l	1	ا ا	. 1	اء		MCP	0.2526	0.2005	0.2074	0.2879	0.3372	0.6881
16	CIFAR10	VGG16	CNN	10000	+AdapM	image	C	N+W	DeepGini	0.5492	0.5080	0.4938	0.4705	0.4553	0.6787
									PRIMA CertPri	0.3826 0.8666	0.3556 0.8091	0.3747 0.7839	0.3430 0.7444	0.3034 0.7043	0.4579 0.9331
									LSA	0.3831	0.2907	0.2748	0.2102	0.2208	0.6361
									DSA	0.3284	0.3026	0.2687	0.2701	0.2757	0.6361
17	ImageNet	ResNet101	CNN	5000	original	image	С	N+W	MCP DeepGini	0.3422 0.6329	0.3570 0.6106	0.3478 0.5634	0.4477 0.5543	0.4398 0.5219	0.7784 0.7837
	-				_	-			PRIMA	0.0329	0.7160	0.7052	0.5859	0.5828	0.7837
									CertPri	0.7667	0.7455	0.6500	0.6298	0.5872	0.8339
									LSA	n/a	n/a	n/a	n/a	n/a	n/a
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
18	ImageNet	ResNet101	CNN	5000	original	image	C	N+B	MCP DeepGini	0.3422 0.6329	0.3570 0.6106	0.3478 0.5634	0.4477 0.5543	0.4398 0.5219	0.7784 0.7837
									PRIMA	0.3705	0.5244	0.3912	0.3938	0.4039	0.5801
									CertPri	0.7490	0.7760	0.6503	0.6583	0.5724	0.8340
									LSA	0.6355	0.6216	0.5871	0.4471	0.4472	0.4943
									DSA MCP	0.5726 0.5838	0.5892 0.7271	0.5590 0.5446	0.5589 0.6888	0.5327 0.6786	0.5107 0.4142
19	ImageNet	ResNet101	CNN	5000	+BIM	image	C	N+W	DeepGini	0.8331	0.6593	0.8264	0.6683	0.6479	0.6264
									PRIMA	0.8469	0.7272	0.9024	0.6582	0.8539	0.6360
									CertPri	0.8430	0.8138	0.8408	0.9323	0.8078	0.9028
									LSA DSA	0.5976 0.6165	0.5892 0.7102	0.6565 0.7175	0.6485 0.5792	0.5966 0.5209	0.5991 0.5305
									MCP	0.5174	0.7102	0.6097	0.3792	0.3209	0.6693
20	ImageNet	ResNet101	CNN	5000	+C&W	image	С	N+W	DeepGini	0.5930	0.5983	0.6215	0.5877	0.5942	0.7757
									PRIMA	0.9316	0.8741	0.8053	0.8319	0.8585	0.6718
									CertPri	0.9700	0.9400	0.8294	0.8281	0.8325	0.9219
			1						LSA DSA	0.5734 0.6824	0.5360 0.5442	0.5419 0.6421	0.5909 0.6098	0.6094 0.6116	0.5140 0.5240
٠.	T 3.	D 37			p: -	.			MCP	0.5696	0.5873	0.0421	0.5687	0.5498	0.5540
21	ImageNet	ResNet101	CNN	5000	FineFool	image	С	N+W	DeepGini	0.7679	0.7762	0.5901	0.5838	0.5804	0.5905
			1						PRIMA	0.8073	0.8556	0.8290	0.8538	0.6275	0.6530
			1						CertPri LSA	0.8307 0.2354	0.9208 0.0598	0.9383 0.1476	0.8170 0.0218	0.9400 0.1891	0.9501 0.3028
									DSA	0.2334	0.0398	0.1470	0.0218	0.1891	0.3028
22	ImagaNat	ResNet101	CNN	5000	+ A don C	imaga	С	N+W	MCP	0.2030	0.2980	0.3241	0.3599	0.4199	0.5938
22	ImageNet	Residenti	CININ	3000	+AdapS	image	C	INT W	DeepGini	0.5596	0.5508	0.4226	0.3874	0.4069	0.7003
									PRIMA CertPri	0.5036 0.7028	0.5070 0.7819	0.4237 0.6690	0.4796 0.6115	0.3192 0.6650	0.4878 0.8619
		1							LSA	0.7028	0.7819	0.0090	0.0113	0.0030	0.5200
									DSA	0.3032	0.3063	0.2407	0.2169	0.2574	0.5167
23	ImageNet	ResNet101	CNN	5000	+AdapC	image	С	N+W	MCP	0.0589	0.1009	0.1848	0.0165	0.1337	0.3436
23	magervet	Resiretion	CIVII	3000	Adapc	mage		14.44	DeepGini	0.1545	0.0683	0.1470	0.1052	0.2072	0.2401
									PRIMA CertPri	0.5857 0.8221	0.5869 0.8106	0.6066 0.7298	0.5256 0.6928	0.4282 0.6768	0.6761 0.8666
									LSA	0.1716	0.1230	0.2044	0.0625	0.1192	0.4598
									DSA	0.1498	0.1536	0.1441	0.1145	0.1594	0.4853
24	ImageNet	ResNet101	CNN	5000	+AdapM	image	C	N+W	MCP	0.2883	0.2328	0.1853	0.2842	0.3891	0.6939
	Ü				1				DeepGini PRIMA	0.5582 0.3441	0.4797 0.3803	0.4855 0.3305	0.4713 0.3348	0.3991 0.3163	0.6453 0.3974
									CertPri	0.8048	0.7526	0.6995	0.6526	0.6660	0.8176
									LSA	0.3511	0.3075	0.2411	0.2238	0.2201	0.6766
									DSA	0.3104	0.3098	0.2982	0.2298	0.2576	0.6183
25	ImageNet	VGG19	CNN	5000	original	image	C	N+W	MCP DeepGini	0.3342 0.6488	0.3608 0.6324	0.3124 0.5695	0.4746 0.5291	0.4463	0.7610 0.7801
									PRIMA		Out of Time			0.000	
									CertPri	0.7730	0.7477	0.6606	0.6680	0.6183	0.8198
									LSA DSA	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
							_		MCP	0.3342	0.3608	0.3124	0.4746	0.4463	0.7610
26	ImageNet	VGG19	CNN	5000	original	image	С	N+B	DeepGini	0.6488	0.6324	0.5695	0.5291	0.5626	0.7801
			1						PRIMA	Out of Time	Out of Time				
			<del>                                     </del>						CertPri	0.7354 0.6120	0.7588	0.6889	0.6546	0.5762	0.8756
			1						LSA DSA	0.6120	0.5929 0.5949	0.5706 0.5885	0.4959 0.5656	0.4258 0.5431	0.4748 0.4756
27	ImagaN-+	VCC10	CNINI	5000	,⊥DTL ⊄	ima	0	NI_XX7	MCP	0.5818	0.6812	0.5767	0.7065	0.6309	0.4144
21	ImageNet	VGG19	CNN	5000	+BIM	image	С	N+W	DeepGini	0.8087	0.6989	0.8016	0.6910	0.6352	0.6363
			1						PRIMA ContPui	Out of Time	Out of Time				Out of Time
		+	+	<del>                                     </del>			-		CertPri LSA	0.8711 0.5902	0.8446 0.5716	0.8702 0.6542	0.9223 0.6387	0.8519 0.6038	0.8853 0.6245
			1						DSA	0.6510	0.7380	0.7004	0.5703	0.5416	0.5178
28	ImageNet	VGG19	CNN	5000	+C&W	image	С	N+W	MCP	0.4930	0.6330	0.5855	0.4466	0.4189	0.6582
20	mgc: vct	, 5019	C1414	3000	· CCC W	mage		14: W	DeepGini	0.5605	0.5803	0.6097	0.5794	0.6361	0.7515
									PRIMA CertPri	Out of Time 0.9594	Out of Time 0.9199	Out of Time 0.8122	Out of Time 0.8196	Out of Time 0.8575	Out of Time 0.9229
			+	+					LSA	0.5409	0.5576	0.5122	0.8190	0.6296	0.5221
			1						DSA	0.7057	0.5602	0.6508	0.6302	0.6193	0.5472
29	ImageNet	VGG19	CNN	5000	FineFool	image	С	N+W	MCP	0.5764	0.5763	0.7478	0.5406	0.5670	0.5550
	3		1		12.001	60	Ũ	,	DeepGini PRIMA	0.7792 Out of Time	0.7929 Out of Time	0.6000 Out of Time	0.5959 Out of Time	0.5875 Out of Time	0.5972 Out of Time
			1						CertPri	0.8164	0.9316	0.9280	0.7977	0.9346	0.9237
				1					LSA	0.2323	0.0688	0.1288	0.0504	0.1975	0.3006
			1						DSA	0.1736	0.1213	0.2574	0.1381	0.0810	0.3001
30	ImageNet	VGG19	CNN	5000	+AdapS	image	С	N+W	MCP DeepGini	0.1945 0.5980	0.3038 0.5286	0.3097 0.4146	0.3784 0.4145	0.4283 0.4113	0.6114 0.6888
		1	1			Ĭ			DeepGini PRIMA	Out of Time	Out of Time		Out of Time	Out of Time	Out of Time
			1						CertPri	0.7368	0.7955	0.6681	0.5862	0.6542	0.8527
									LSA	0.2926	0.2349	0.1563	0.2405	0.1095	0.4949
			1						DSA	0.3105	0.3101	0.2188	0.2607	0.2535	0.5623
		1	CNN	5000	+AdapC	image	C	N+W	MCP DeerGini	0.0540 0.1124	0.1053 0.0899	0.1949 0.1775	0.0099 0.1300	0.1511 0.1909	0.3451 0.2529
31	ImageNet	VGG19	CIVIV	2000	1 1										
31	ImageNet	VGG19	CIVIV	3000	1				DeepGini PRIMA	Out of Time	Out of Time				Out of Time
31	ImageNet	VGG19	CIVIV	5000	1										

22	I N	VCC10	CNINI	5000			C	NUM	DSA MCP	0.1549 0.2788	0.1821 0.1981	0.1189 0.2084	0.1180 0.2705	0.1266 0.3679	0.5149 0.6756
32	ImageNet	VGG19	CNN	5000	+AdapM	image	С	N+W	DeepGini	0.5746	0.4542	0.4860	0.4637	0.4088	0.6360
									PRIMA	Out of Time			Out of Time	Out of Time	Out of Time
									CertPri	0.7900	0.7521	0.6958	0.6331	0.6786	0.8136
									LSA DSA	0.3737 n/a	0.4018 n/a	0.4144 n/a	0.4322 n/a	0.4583 n/a	0.6452 n/a
									MCP	n/a	n/a	n/a	n/a	n/a	n/a
33	DrivingSA	VGG19-AD	CNN	5279	original	image	R	N+W	DeepGini	n/a		n/a	n/a	n/a	n/a
									PRIMA	0.8236	0.7983	0.7644	0.7318	0.6973	0.7691
									CertPri	0.8017	0.8447	0.8544	0.8154	0.7853	0.8587
									LSA	n/a	n/a	n/a	n/a	n/a	n/a
									DSA	n/a		n/a	n/a	n/a	n/a
34	DrivingSA	VGG19-AD	CNN	5279	original	image	R	N+B	MCP	n/a		n/a	n/a	n/a	n/a
						8-			DeepGini	n/a	n/a	n/a	n/a	n/a	n/a
									PRIMA	0.3827	0.3932	0.3785	0.3760	0.3452	0.4181
									CertPri LSA	0.8054 0.3164	0.8329 0.3533	0.7938 0.3534	0.8131 0.3744	0.8167 0.4542	0.8467 0.6837
									DSA	0.3104 n/a	n/a	n/a	n/a	n/a	n/a
					_		_		MCP	n/a		n/a	n/a	n/a	n/a
35	DrivingSA	VGG19-AD	CNN	5279	patch	image	R	N+W	DeepGini	n/a		n/a	n/a	n/a	n/a
									PRIMA	0.8174	0.8205	0.7986	0.7813	0.7495	0.7817
									CertPri	0.8383	0.8190	0.8448	0.8469	0.8119	0.8608
									LSA	0.4597	0.4200	0.4619	0.4682	0.4852	0.6720
									DSA	n/a		n/a	n/a	n/a	n/a
36	DrivingSA	VGG19-AD	CNN	5279	aturation	image	R	N+W	MCP	n/a		n/a	n/a	n/a	n/a
		1			]	5	-	1	DeepGini PRIMA	n/a 0.7525	n/a 0.7780	n/a 0.7821	n/a 0.7988	n/a 0.8451	n/a 0.8516
								Ī	CertPri	0.7525	0.7780	0.7821	0.7988	0.8451	0.8516
		<del>                                     </del>		1		<del>                                     </del>		<del>                                     </del>	LSA	0.3941	0.7380	0.5085	0.6562	0.8093	0.9200
								Ī	DSA	0.4898	0.5516	0.6264	0.7169	0.8272	0.9490
~-	EN OLHOCO	A1 37 :	CDDI	1000			_	,,,,,,	MCP	0.4676	0.5819	0.6737	0.7283	0.8503	0.9081
5/	FMNIST	AlexNet	CNN	10000	original	image	С	N+W	DeepGini	0.4761	0.5782	0.6750	0.7855	0.8541	0.9465
		1						Ī	PRIMA	0.4968	0.5152	0.6161	0.7297	0.8354	0.9529
									CertPri	0.4806	0.5832	0.7000	0.8234	0.8276	0.9924
									LSA	0.4586	0.4069	0.3785	0.3377	0.3267	0.5872
									DSA	0.5805	0.5025	0.4772	0.3993	0.4090	0.6267
38	FMNIST P	AlexNet-P	CNN	10000	original	image	C	P+W	MCP Danie Cini	0.4484 0.5086	0.4964 0.4958	0.4825 0.4655	0.4735 0.4974	0.4209 0.3591	0.5408 0.5597
	_					·			DeepGini PRIMA	0.3086	0.4938	0.4655	0.4974	0.3391	0.3397
									CertPri	0.9928	0.9804	0.9849	0.9882	0.9536	0.9940
		1							LSA	0.5814	n/a	0.9911 n/a	0.9783 n/a	0.9030 n/a	0.6728
									DSA	0.6712	n/a	n/a	n/a	n/a	0.6910
• •		******	co. p. r	4.50			_		MCP	0.7805	n/a	n/a	n/a	n/a	0.7616
39	Ants_Bees	VGG16-AB	CNN	153	original	image	С	T+W	DeepGini	0.8545	n/a	n/a	n/a	n/a	0.8876
									PRIMA	0.9104	n/a	n/a	n/a	n/a	0.9222
									CertPri	0.9365	n/a	n/a	n/a	n/a	0.9610
									LSA	0.4190	0.3893	0.3799	0.3914	0.5798	0.5868
									DSA	0.5860	0.5771	0.5463	0.5266	0.6805	0.7250
40	Cats Dogs	VGG19-CD	CNN	5000	original	image	C	T+W	MCP DoorGini	0.6669 0.6842	0.6438	0.6459	0.6538	0.7041 0.7779	0.7059
						·			DeepGini PRIMA	0.8491	0.7051 0.8380	0.7261 0.8111	0.7429 0.8214	0.7779	0.8160 0.8874
									CertPri	0.8110	0.8185	0.8233	0.8214	0.8840	0.9373
									LSA	0.3793	0.4666	0.4766	0.5352	0.5542	0.6915
									DSA	0.4532	0.5541	0.6546	0.6503	0.6448	0.7286
4.1	D (DD	CNINI I	CNINI	10000				NT : 337	MCP	0.6104	0.7039	0.7482	0.8289	0.7827	0.8108
41	IMDB	CNN-I	CNN	10000	original	text	С	N+W	DeepGini	0.6272	0.7052	0.7886	0.8315	0.8343	0.8888
									PRIMA	0.6707	0.7214	0.8066	0.8573	0.8643	0.8816
									CertPri	0.7197	0.7240	0.7783	0.8732	0.8717	0.9194
									LSA	0.1117	0.0959	0.0988	0.1374	0.1291	0.4468
									DSA	0.3658	0.2841	0.2212	0.2706	0.1864	0.4883
42	IMDB	LSTM-I	LSTM	10000	original	text	C	N+W	MCP DeepGini	0.3847 0.4052	0.3821 0.4013	0.4076 0.4369	0.4301 0.4311	0.3893 0.4396	0.7779 0.8031
								Ī	PRIMA	0.4032	0.5451	0.5335	0.4311	0.5099	0.7958
		1						Ī	CertPri	0.6949	0.6612	0.6328	0.6437	0.6133	0.8862
									LSA	0.4066	0.5287	0.4895	0.5821	0.5703	0.7540
								Ī	DSA	0.4782	0.5509	0.6830	0.6672	0.6746	0.7534
43	Reuters	CNN-R	CNN	2246	original	text	С	N+W	MCP	0.6302	0.7092	0.7827	0.8546	0.8385	0.8227
.5	_1040010	2	2.1.1	2240	original	icht.	C	*** **	DeepGini	0.6369	0.7577	0.8245	0.8811	0.8339	0.9209
		1						Ī	PRIMA ContPui	0.7198	0.7047	0.7149	0.7952	0.8429	0.8983
		<del>                                     </del>		1				<del>                                     </del>	CertPri LSA	0.7610 0.2199	0.7510 0.2745	0.8133 0.2227	0.9026 0.3083	0.8602 0.2577	0.9666
		1						Ī	DSA	0.2199	0.2743	0.2227	0.3083	0.2377	0.4979
		L	L _					l _	MCP	0.4213	0.4022	0.2303	0.3039	0.3263	0.7785
44	Reuters	LSTM-R	LSTM	2246	original	text	C	N+W	DeepGini	0.4222	0.4449	0.4231	0.4489	0.4513	0.8098
		1						Ī	PRIMA	0.6112	0.5660	0.5702	0.6521	0.5408	0.8107
		<u></u>	<u> </u>	<u> </u>				L	CertPri	0.6962	0.6962	0.6782	0.6386	0.6518	0.8906
									LSA	0.3406	0.2476	0.5494	n/a	n/a	0.6026
								Ī	DSA	0.3456	0.3174	0.5885	n/a	n/a	0.5260
45	VCTK10	LSTM-V	LSTM	400	original	speech	С	N+W	MCP	0.6071	0.5984	0.7025	n/a	n/a	0.7757
					3		-	1	DeepGini PRIMA	0.6331 0.4218	0.6333 0.5092	0.7784 0.8308	n/a n/a	n/a	0.8760 0.8660
								Ī	CertPri	0.4218	0.3092	0.8308	n/a n/a	n/a n/a	0.8660
		<del>                                     </del>		1				<del>                                     </del>	LSA	0.7473	0.7614	0.8397	n/a	n/a	0.6208
								Ī	DSA	n/a		n/a	n/a	n/a	n/a
11	DMI obor	LOTATION	I CTL	212		ا, با	10	XT . ***	MCP	n/a		n/a	n/a	n/a	n/a
46	RML8PSK	LSTM-RML	LSIM	312	original	signal	R	N+W	DeepGini	n/a		n/a	n/a	n/a	n/a
								Ī	PRIMA	0.7141	0.7001	0.7406	n/a	n/a	0.7422
				ļ					CertPri	0.8041	0.7881	0.8361	n/a	n/a	0.8498
								Ī	LSA	0.3688	0.2651	0.2253	0.2309	0.6076	0.6076
								Ī	DSA MCP	0.3195 0.5610	0.3066 0.5904	0.2774 0.5953	0.2396 0.5066	0.5453 0.7356	0.5453 0.7356
47	Cora	GCN-C	GCN	1000	original	graph	C	N+W	DeepGini	0.6336	0.5893	0.5700	0.5728	0.7336	0.7336
	1	ì	Ī	1	l			ĺ	PRIMA	0.4372	0.4660	0.5157	0.3728	0.6558	0.6558
				l l											

									LSA	0.4539	0.4973	0.4918	0.5413	0.5103	0.6530
									DSA	0.5190	0.5377	0.5068	0.5410	0.5250	0.7709
10	Adult	LFCN-A	FCN	10000	:-1	structured	C	NI IN	, MCP	0.6025	0.5848	0.5533	0.4942	0.5594	0.7976
48	Adult	LFCN-A	FCN	10000	originai	iructurea	C	IN+W	DeepGini	0.5562	0.5825	0.5850	0.5285	0.5673	0.7959
									PRIMA	0.5878	0.5775	0.5857	0.5584	0.5366	0.8024
									CertPri	0.5912	0.6107	0.6043	0.5859	0.5826	0.7959
									LSA	0.4720	0.5272	0.5080	0.5410	0.6583	0.6583
									DSA	0.5217	0.5449	0.5368	0.5137	0.7646	0.7646
10	COMPAS	HFCN-C	FCN	1000	original	structured	C	NI+W	MCP	0.5647	0.5669	0.5670	0.5056	0.7510	0.7510
77	COMI AS	III CIN-C	ren	1000	Original	inuctureu	C	14 1 44	DeepGini	0.5076	0.5741	0.5387	0.5333	0.7899	0.7899
									PRIMA	0.5892	0.6160	0.5863	0.5350	0.7914	0.7914
									CertPri	0.5622	0.6385	0.6071	0.6081	0.8485	0.8485
									LSA	0.6477	n/a	n/a	n/a	n/a	0.6746
									DSA	n/a	n/a	n/a	n/a	n/a	n/a
50	Boston F	FCN-B	FCN	102	original	structured	D	NI+W	MCP	n/a	n/a	n/a	n/a	n/a	n/a
50	Doston	I CN-B	ren	102	Original	ituctureu	K	14 1 44	MCP DeepGini	n/a	n/a	n/a	n/a	n/a	n/a
									PRIMA	0.7903	n/a	n/a	n/a	n/a	0.7876
									CertPri	0.8445	n/a	n/a	n/a	n/a	0.8729