Supplementary Results of Table 2 and Table 3 in RQ1:

Model	Precision Recall		<b>F</b> 1↑	MCC1	AUC POC1	D@20%F↑	F@20%P	Pont↑	<b>Accuracy</b> ↑		R@20%E <sub>1</sub> ↑	$E@20\%R_1\downarrow$	$IFA_l^{\downarrow}$
Wibuci			I' I '	MCC	AUC-ROC↑ R@20%E↑		E@20 /0K↓	1 opt	Top-5	Top-10	R@2070E[	E@20 /010 *	
Deeper	0.1748	0.4295	0.2485	0.1629	0.6772	0.6295	0.0203	0.8274					
LApredict	0.4545	0.0316	0.0591	0.1018	0.6938	0.6253	0.0198	0.8137					
DeepJIT	0.2126	0.6632	0.3219	0.2724	0.7911	0.7095	0.0137	0.8736					
JITLine	0.6391	0.1789	0.2796	0.3096	0.8087	0.7116	0.0154	0.8852	0.1339	0.1214	0.1935	0.3465	23.2353
JIT-Fine	0.4792	0.3874	0.4284	0.3829	0.8777	0.7768	0.0124	0.9308	0.1749	0.1672	0.2088	0.3228	12.8913
JIT-Smart	0.5023	0.4611	0.4808	0.4343	0.8916	0.7916	0.0105	0.9208	0.5409	0.3943	0.7086	0.0989	0.0822
JIT-Coka	0.5463	0.4842	0.5134	0.4713	0.8887	0.7853	0.0115	0.9251	0.5459	0.4038	0.6816	0.1086	0.0783

Supplementary Results of Table 4 in RQ3:

Model	Precision <sup>↑</sup> Recall <sup>↑</sup>		F1↑	MCC↑	ALIC DOC1	D@200/F1	E@20%R↓	Popt <sup>↑</sup>	Accuracy↑		$R@20\%E_l^{\uparrow}$	$E@20\%R_l^{\downarrow}$	$IFA_l^{\downarrow}$
Model			I I I	MICC	AUC-ROC↑ R@20%l		Lw2070K↓	1 opt	Top-5	Top-10			
JIT-Coka	0.5463	0.4842	0.5134	0.4713	0.8887	0.7853	0.0115	0.9251	0.5459	0.4038	0.6816	0.1086	0.0783
w/o codet5	0.5045	0.4674	0.4852	0.4388	0.8905	0.8084	0.0108	0.9355	0.5435	0.4063	0.6774	0.1079	0.0811
w/o KANLinear	0.5875	0.3958	0.4730	0.4433	0.8881	0.8232	0.0101	0.9423	0.5483	0.4003	0.7089	0.0936	0.0957
w/o DLN	0.5893	0.4168	0.4883	0.4565	0.8894	0.7284	0.0128	0.8875	0.1992	0.2033	0.1918	0.3444	16.2121
w/o EF	0.3789	0.4547	0.4134	0.3539	0.8610	0.7958	0.0105	0.9280	0.5424	0.3953	0.7144	0.1034	0.0833

Supplementary Results of Table 5 in RQ3:

Loss	Weight	Dunninian 1	Dagallt	171↑	MCC↑	AUC DOC	↑ R@20%E↑	E@20%R↓	<b>Popt</b> ↑	<b>Accuracy</b> <sup>†</sup>		R@20%E₁↑	F@200/ D	IFA₁↓
$\lambda_{\mathrm{DP}}$	$\lambda_{ m DL}$	Precision <sup>↑</sup> Recall <sup>↑</sup>	Recaii	F1↑	MCC↑	AUC-RUC				Top-5	Top-10	K@20 /0E11	$E@20\%R_{l}$	IF A <sub>l</sub> ↓
0.1	0.9	0.4837	0.4695	0.4765	0.4277	0.8853	0.7832	0.0116	0.9229	0.5466	0.4028	0.7123	0.0969	0.0807
0.2	0.8	0.5769	0.4105	0.4797	0.4467	0.8868	0.7937	0.0117	0.9240	0.5379	0.3973	0.6865	0.1032	0.0923
0.3	0.7	0.5463	0.4842	0.5134	0.4713	0.8887	0.7853	0.0115	0.9251	0.5459	0.4038	0.6816	0.1086	0.0783
0.4	0.6	0.5083	0.4526	0.4788	0.4334	0.8882	0.8021	0.0114	0.9280	0.5474	0.4051	0.6950	0.1049	0.0837
0.5	0.5	0.5174	0.4695	0.4923	0.4473	0.8881	0.7916	0.0128	0.9255	0.5478	0.4033	0.6964	0.0980	0.0807
0.6	0.4	0.5208	0.4484	0.4819	0.4382	0.8831	0.7895	0.0118	0.9224	0.5453	0.4069	0.6850	0.1047	0.0845
0.7	0.3	0.4903	0.4779	0.4840	0.4358	0.8885	0.7789	0.0120	0.9226	0.5435	0.4005	0.6858	0.1009	0.0793
0.8	0.2	0.4784	0.4653	0.4717	0.4224	0.8819	0.7853	0.0112	0.9221	0.5518	0.4118	0.6923	0.0999	0.0814
0.9	0.1	0.4715	0.4695	0.4705	0.4203	0.8863	0.7811	0.0115	0.9195	0.5402	0.4004	0.6889	0.1030	0.0807
1	0	0.5403	0.4379	0.4837	0.4431	0.8818	0.7684	0.0112	0.9090	0.5328	0.3934	0.6841	0.1013	0.3221