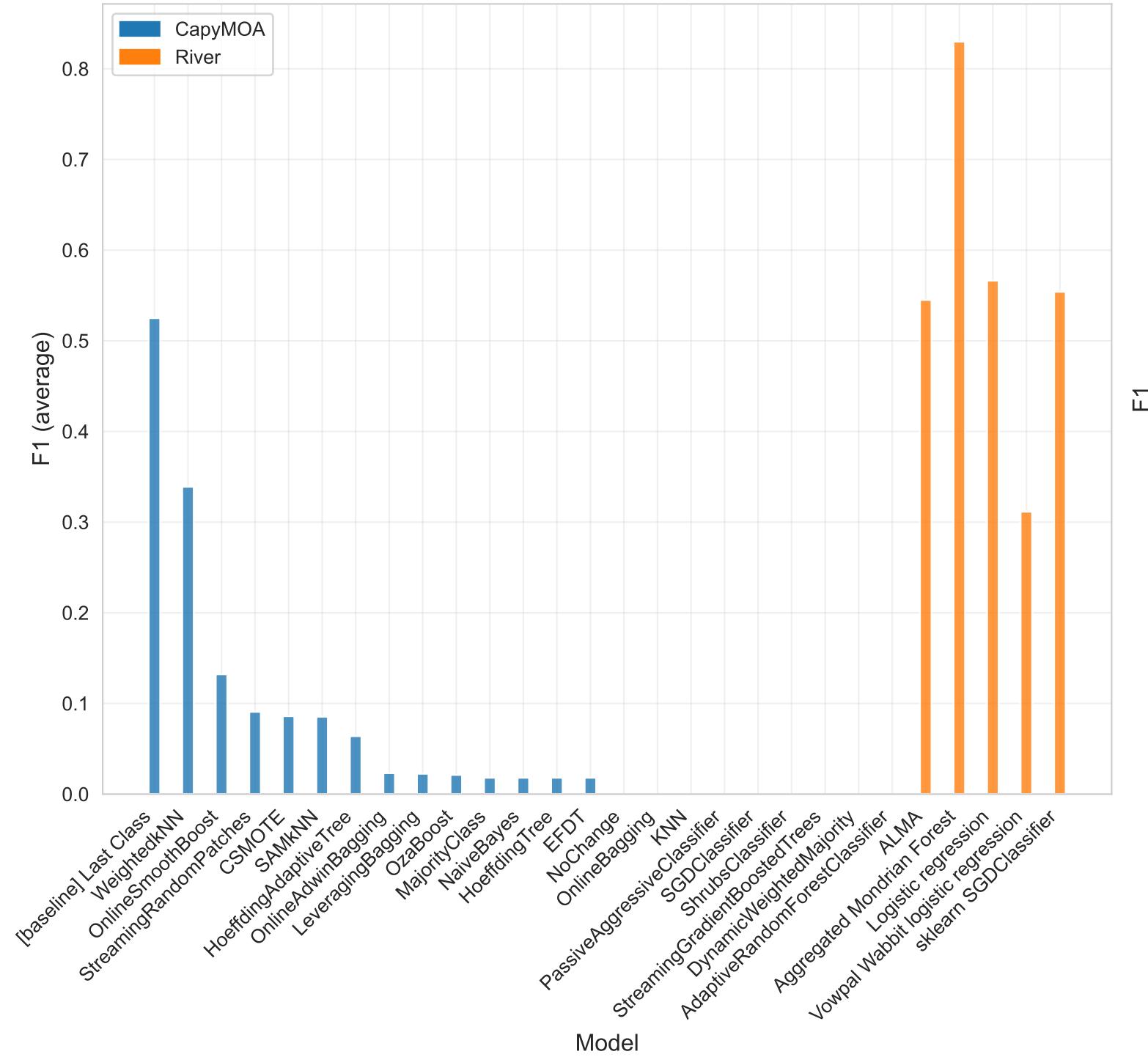
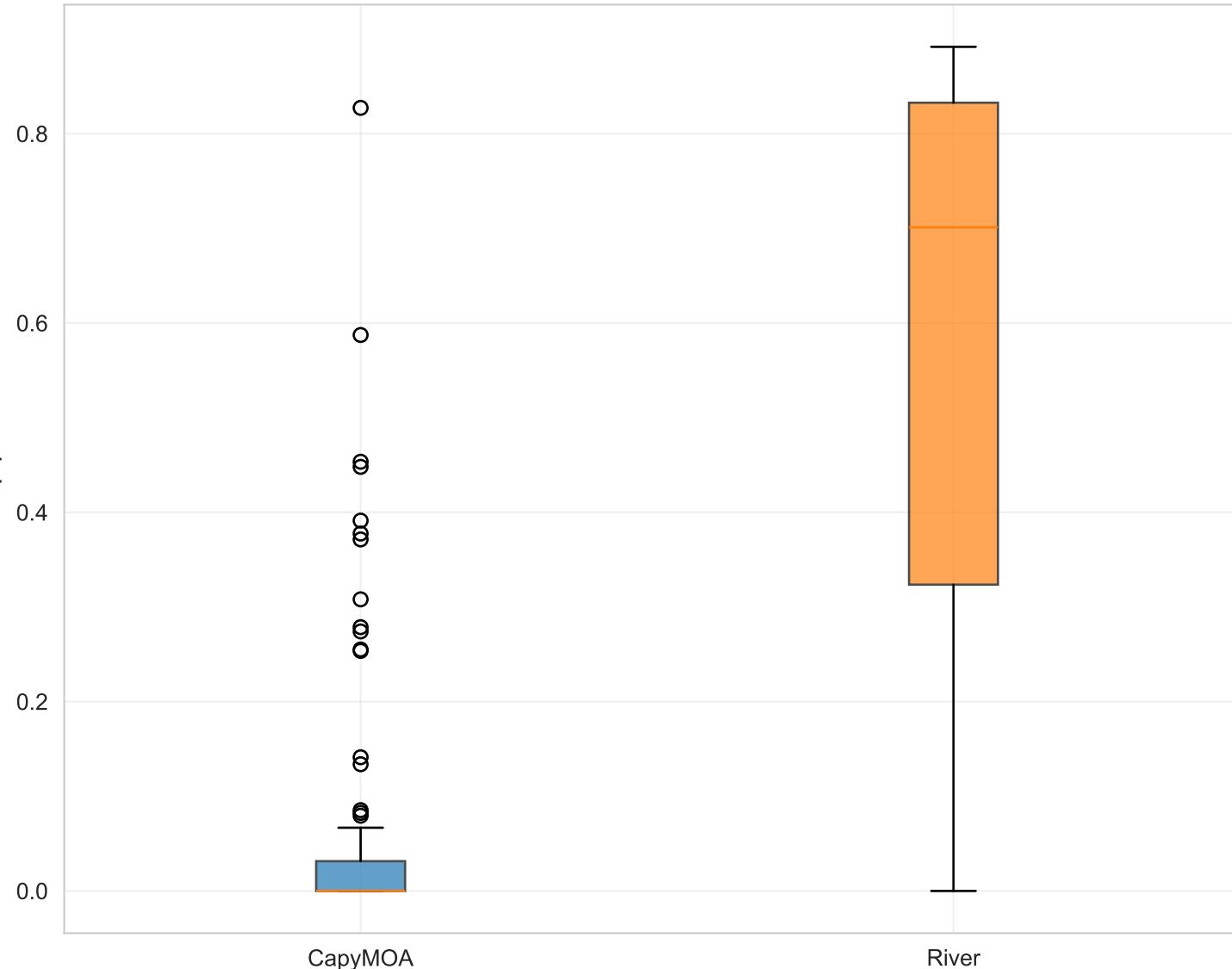


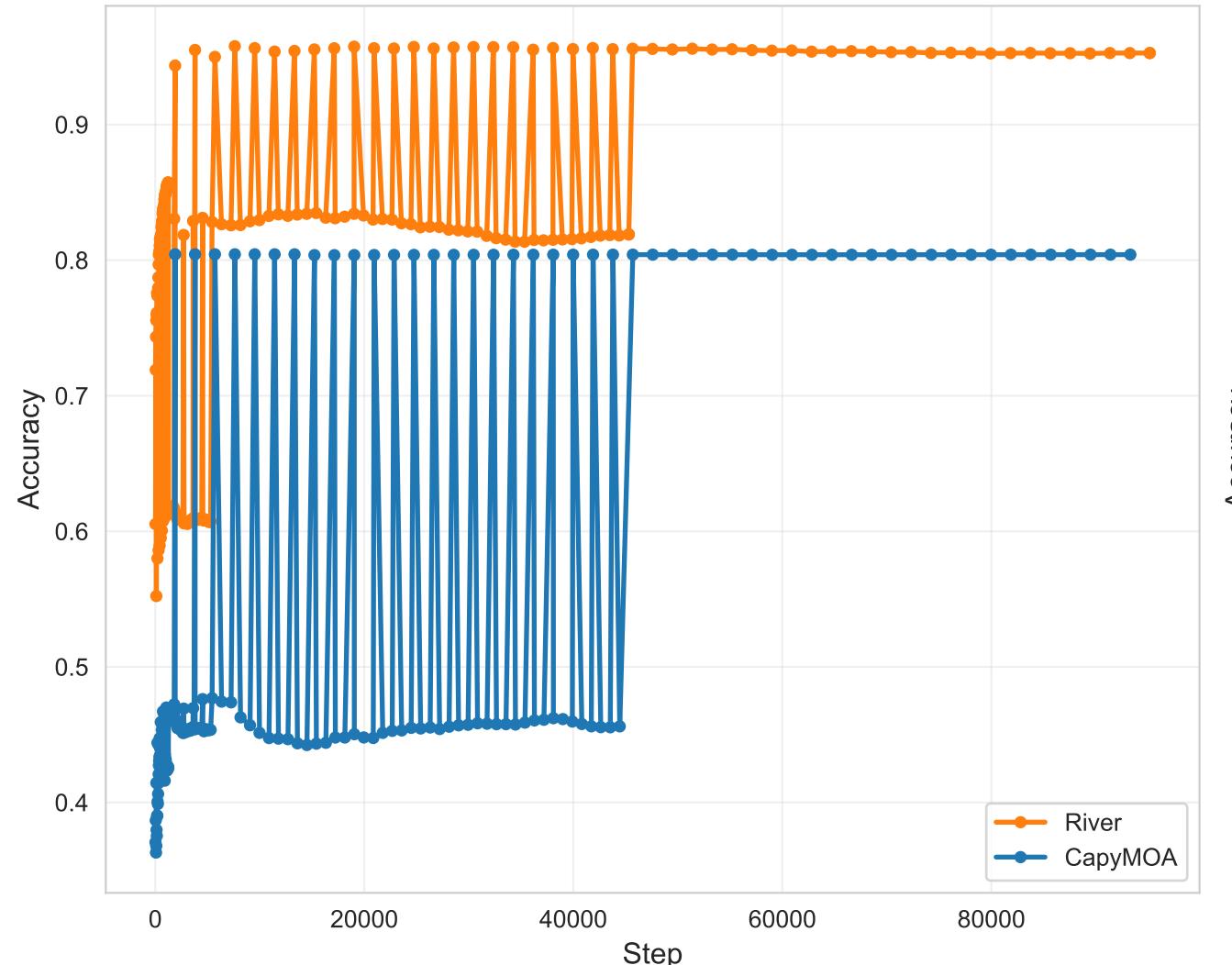
F1 Comparison by Model - Binary Classification



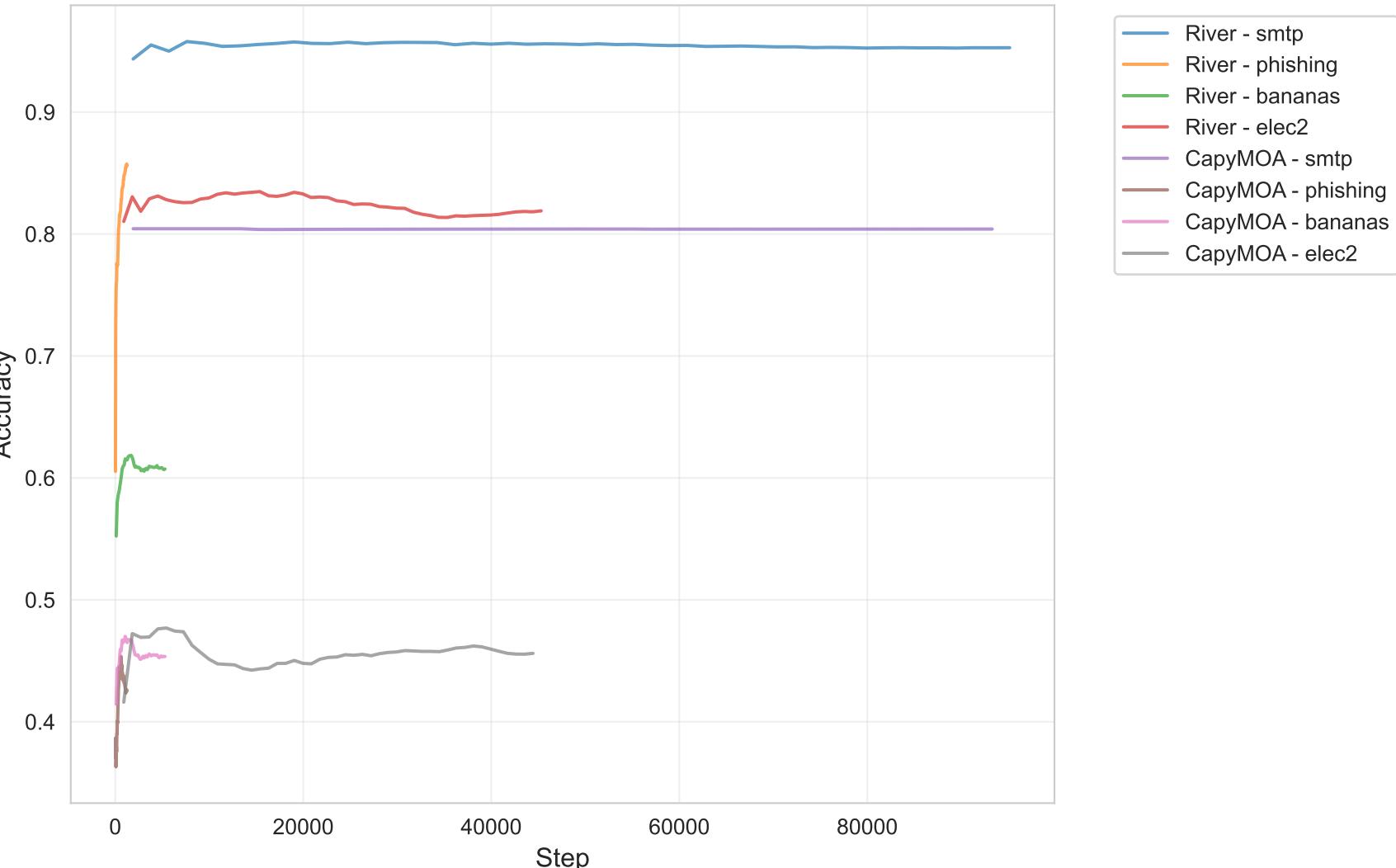
F1 Distribution by Library - Binary Classification



Accuracy Evolution - Binary Classification



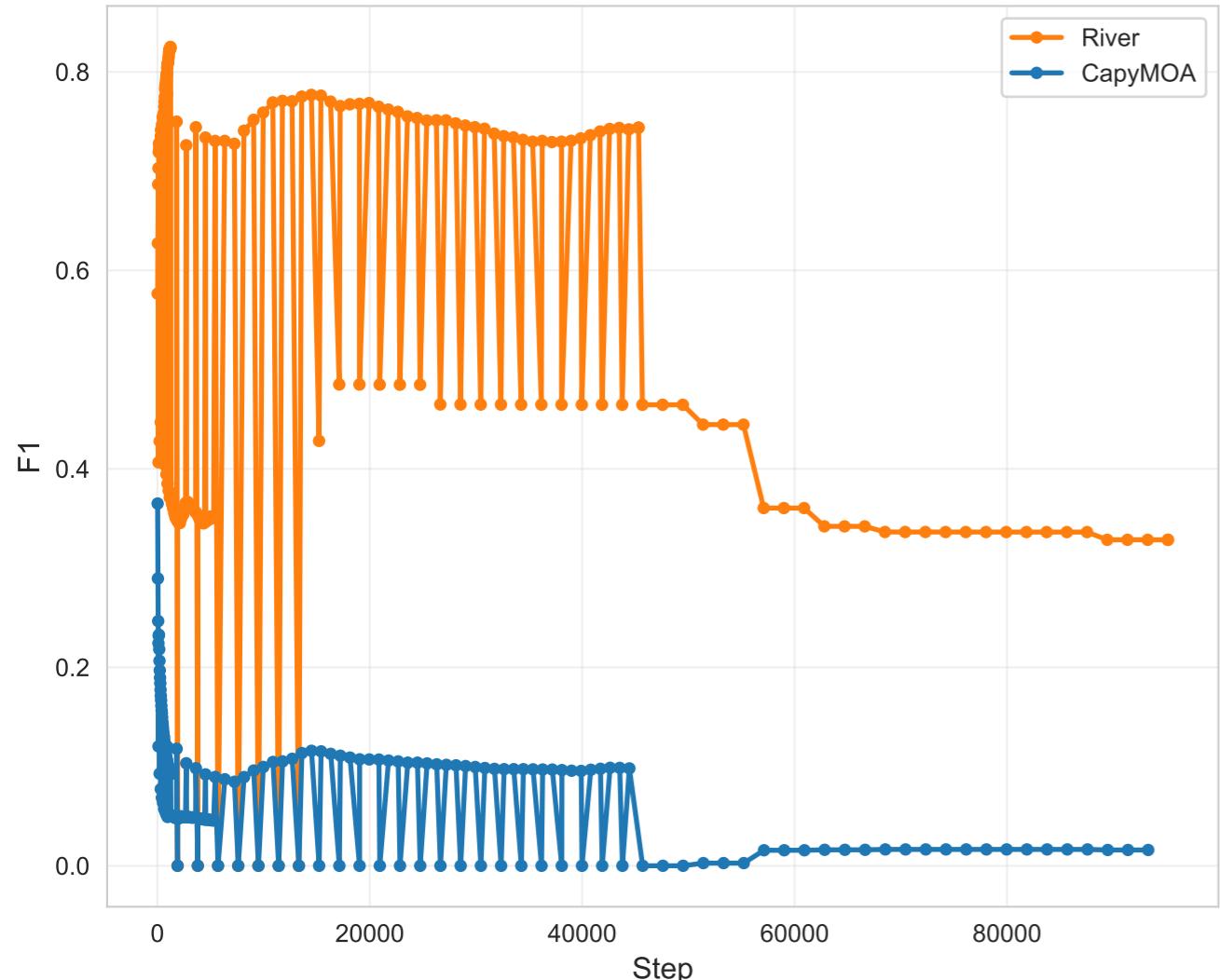
Accuracy Evolution by Dataset - Binary Classification



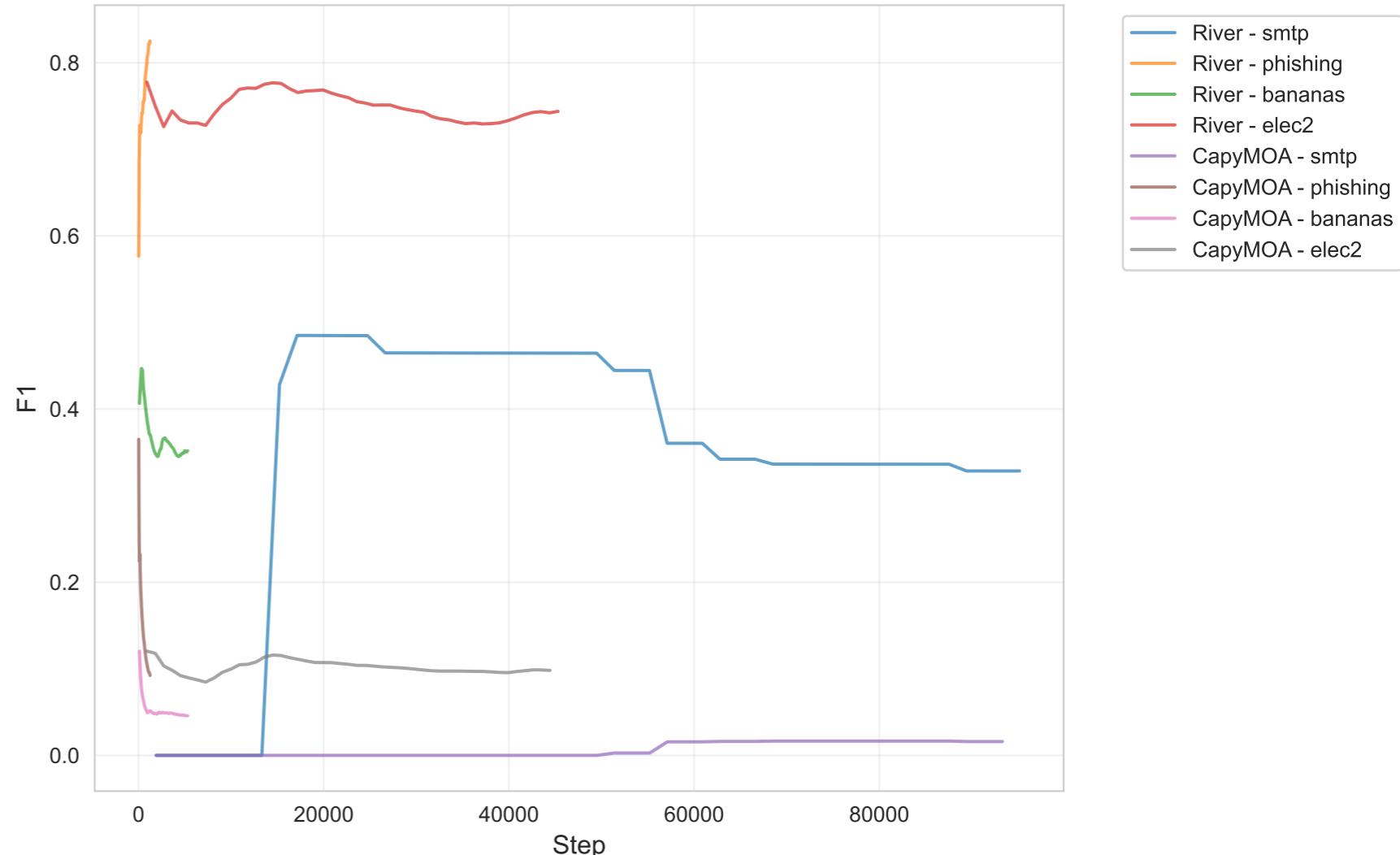
Legend:

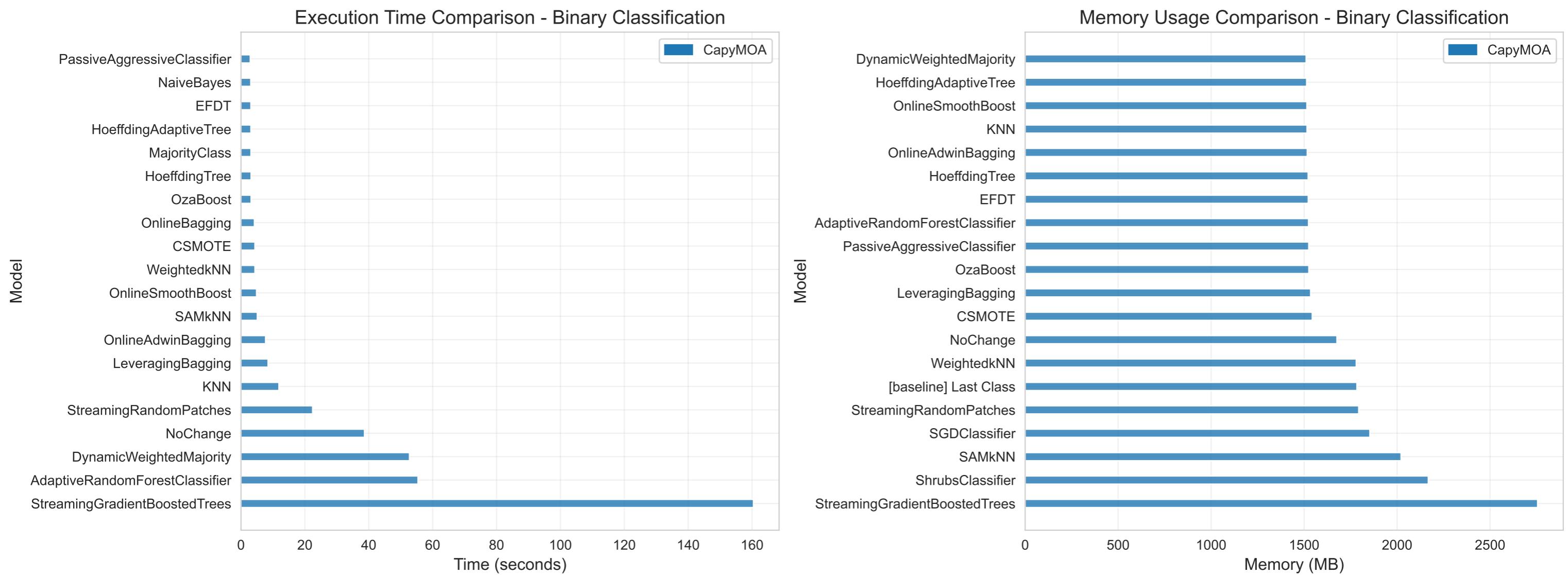
- River - smtp
- River - phishing
- River - bananas
- River - elec2
- CapyMOA - smtp
- CapyMOA - phishing
- CapyMOA - bananas
- CapyMOA - elec2

F1 Evolution - Binary Classification



F1 Evolution by Dataset - Binary Classification





Summary Table - Binary Classification

Library	Model	Dataset	Accuracy	F1	Time (s)	Memory (MB)
River	ALMA	bananas	0.5042	0.4810	3586.12	0.00
River	ALMA	elec2	0.9064	0.8898	5172.95	0.00
River	ALMA	phishing	0.8235	0.8081	1739.43	0.00
River	ALMA	smtp	0.7647	0.0018	3821.15	0.00
River	Aggregated Mondrian Forest	bananas	0.8893	0.8741	5593.59	18.31
River	Aggregated Mondrian Forest	elec2	0.8496	0.8195	10796.68	311.13
River	Aggregated Mondrian Forest	phishing	0.9048	0.8919	4137.14	3.53
River	Aggregated Mondrian Forest	smtp	0.9999	0.7347	3804.29	0.21
River	Logistic regression	bananas	0.5450	0.1952	3760.54	0.00
River	Logistic regression	elec2	0.8217	0.7767	5463.73	0.01
River	Logistic regression	phishing	0.8888	0.8728	3236.15	0.01
River	Logistic regression	smtp	0.9998	0.4211	3534.92	0.00
River	Vowpal Wabbit logistic regression	bananas	0.5513	0.0000	3715.94	0.00
River	Vowpal Wabbit logistic regression	elec2	0.6966	0.4575	5627.32	0.00
River	Vowpal Wabbit logistic regression	phishing	0.7729	0.6677	3616.94	0.00
River	Vowpal Wabbit logistic regression	smtp	0.9997	0.1212	3842.00	0.00
River	sklearn SGDClassifier	bananas	0.5483	0.2036	3825.24	0.01
River	sklearn SGDClassifier	elec2	0.8186	0.7724	4523.70	0.01
River	sklearn SGDClassifier	phishing	0.8907	0.8771	3605.51	0.01
River	sklearn SGDClassifier	smtp	0.9997	0.3636	5164.20	0.01
CapyMOA	AdaptiveRandomForestClassifier	bananas	0.1840	0.0000	8.50	1450.16
CapyMOA	AdaptiveRandomForestClassifier	elec2	0.1787	0.0000	67.85	1514.20
CapyMOA	AdaptiveRandomForestClassifier	phishing	0.1882	0.0000	2.08	1421.88
CapyMOA	AdaptiveRandomForestClassifier	smtp	0.3102	0.0000	143.27	1709.19
CapyMOA	CSMOTE	bananas	0.5513	0.0035	1.45	1710.39
CapyMOA	CSMOTE	elec2	0.5438	0.2742	6.68	1506.09
CapyMOA	CSMOTE	phishing	0.5572	0.0668	0.21	1471.09
CapyMOA	CSMOTE	smtp	0.9997	0.0000	9.16	1487.77
CapyMOA	DynamicWeightedMajority	bananas	0.1840	0.0000	7.89	1512.33
CapyMOA	DynamicWeightedMajority	elec2	0.1787	0.0000	64.63	1496.12
CapyMOA	DynamicWeightedMajority	phishing	0.1882	0.0000	1.78	1513.22
CapyMOA	DynamicWeightedMajority	smtp	0.3102	0.0000	136.74	1521.88
CapyMOA	EFDT	bananas	0.5513	0.0035	0.53	1518.56
CapyMOA	EFDT	elec2	0.5759	0.0023	3.71	1525.58
CapyMOA	EFDT	phishing	0.5572	0.0668	0.10	1521.69
CapyMOA	EFDT	smtp	0.9997	0.0000	8.11	1523.73
CapyMOA	HoeffdingAdaptiveTree	bananas	0.5517	0.0000	0.42	1524.83
CapyMOA	HoeffdingAdaptiveTree	elec2	0.5759	0.0011	3.98	1530.36
CapyMOA	HoeffdingAdaptiveTree	phishing	0.5422	0.2551	0.10	1496.42
CapyMOA	HoeffdingAdaptiveTree	smtp	0.9997	0.0000	7.96	1503.38
CapyMOA	HoeffdingTree	bananas	0.5513	0.0035	0.45	1524.39
CapyMOA	HoeffdingTree	elec2	0.5759	0.0023	3.86	1531.41
CapyMOA	HoeffdingTree	phishing	0.5572	0.0668	0.11	1528.41
CapyMOA	HoeffdingTree	smtp	0.9997	0.0000	8.27	1503.39
CapyMOA	KNN	bananas	0.5517	0.0000	2.04	1526.75
CapyMOA	KNN	elec2	0.5760	0.0000	19.26	1531.92
CapyMOA	KNN	phishing	0.5622	0.0000	0.28	1500.53
CapyMOA	KNN	smtp	0.9997	0.0000	25.99	1503.94
CapyMOA	LeveragingBagging	bananas	0.5511	0.0052	1.25	1531.58
CapyMOA	LeveragingBagging	elec2	0.5758	0.0025	9.77	1540.53
CapyMOA	LeveragingBagging	phishing	0.5547	0.0825	0.21	1533.64
CapyMOA	LeveragingBagging	smtp	0.9997	0.0000	22.70	1534.88
CapyMOA	MajorityClass	bananas	0.5513	0.0035	0.45	1500.97
CapyMOA	MajorityClass	elec2	0.5759	0.0023	3.86	1508.97
CapyMOA	MajorityClass	phishing	0.5572	0.0668	0.10	1506.97
CapyMOA	MajorityClass	smtp	0.9997	0.0000	8.11	1507.97
CapyMOA	NaiveBayes	bananas	0.5513	0.0035	0.43	1503.98
CapyMOA	NaiveBayes	elec2	0.5759	0.0023	3.82	1512.00
CapyMOA	NaiveBayes	phishing	0.5572	0.0668	0.10	1510.00
CapyMOA	NaiveBayes	smtp	0.9997	0.0000	7.95	1508.02
CapyMOA	NoChange	bananas	0.1840	0.0000	5.66	1718.72
CapyMOA	NoChange	elec2	0.1787	0.0000	47.48	1542.92
CapyMOA	NoChange	phishing	0.1882	0.0000	1.22	1719.66
CapyMOA	NoChange	smtp	0.3102	0.0000	100.30	1725.03
CapyMOA	OnlineAdwinBagging	bananas	0.5511	0.0052	1.08	1506.95
CapyMOA	OnlineAdwinBagging	elec2	0.5758	0.0024	8.68	1515.30
CapyMOA	OnlineAdwinBagging	phishing	0.5531	0.0854	0.27	1521.23
CapyMOA	OnlineAdwinBagging	smtp	0.9997	0.0000	20.81	1524.44
CapyMOA	OnlineBagging	bananas	0.5515	0.0000	0.59	1507.39
CapyMOA	OnlineBagging	elec2	0.5760	0.0000	5.36	1508.42
CapyMOA	OnlineBagging	phishing	0.5634	0.0000	0.14	1508.44
CapyMOA	OnlineBagging	smtp	0.9997	0.0000	10.76	1506.55
CapyMOA	OnlineSmoothBoost	bananas	0.5470	0.1339	0.69	1520.56
CapyMOA	OnlineSmoothBoost	elec2	0.5822	0.1412	5.60	1528.58
CapyMOA	OnlineSmoothBoost	phishing	0.5466	0.2536	0.14	1505.69
CapyMOA	OnlineSmoothBoost	smtp	0.9997	0.0000	13.10	1505.75
CapyMOA	OzaBoost	bananas	0.5507	0.0289	0.44	1522.67
CapyMOA	OzaBoost	elec2	0.5761	0.0195	4.10	1528.72
CapyMOA	OzaBoost	phishing	0.5622	0.0367	0.12	1524.78
CapyMOA	OzaBoost	smtp	0.9997	0.0000	8.04	1525.84
CapyMOA	PassiveAggressiveClassifier	bananas	0.0920	0.0000	0.40	1505.75
CapyMOA	PassiveAggressiveClassifier	elec2	0.0993	0.0000	3.47	1513.75
CapyMOA	PassiveAggressiveClassifier	phishing	0.0937	0.0000	0.10	1539.92
CapyMOA	PassiveAggressiveClassifier	smtp	0.1724	0.0000	7.70	1540.92
CapyMOA	SAMkNN	bananas	0.5502	0.0297	0.57	1905.80
CapyMOA	SAMkNN	elec2	0.6161	0.3081	4.36	2167.72
CapyMOA	SAMkNN	phishing	0.5631	0.0038	0.17	1868.91
CapyMOA	SAMkNN	smtp	0.9997	0.0000	15.40	2142.94
CapyMOA	SGDClassifier	bananas	0.0920	0.0000	0.40	2163.72
CapyMOA	SGDClassifier	elec2	0.0993	0.0000	3.36	2171.67
CapyMOA	SGDClassifier	phishing	0.0937	0.0000	0.10	1538.92
CapyMOA	SGDClassifier	smtp	0.1724	0.0000	7.56	1540.92
CapyMOA	ShrubsClassifier	bananas	0.0920	0.0000	0.40	2165.67
CapyMOA	ShrubsClassifier	elec2	0.0993	0.0000	3.45	2170.75
CapyMOA	ShrubsClassifier	phishing	0.0937	0.0000	0.10	2166.75
CapyMOA	ShrubsClassifier	smtp	0.1724	0.0000	7.20	2168.12
CapyMOA	StreamingGradientBoostedTrees	bananas	0.8507	0.0000	16.29	1729.69
CapyMOA	StreamingGradientBoostedTrees	elec2	0.1787	0.0000	182.27	3070.09
CapyMOA	StreamingGradientBoostedTrees	phishing	0.1882	0.0000	3.84	1548.94
CapyMOA	StreamingGradientBoostedTrees	smtp	0.9999	0.0000	439.35	4673.64
CapyMOA	StreamingRandomPatches	bananas	0.5511	0.0052	1.58	1938.91
CapyMOA	StreamingRandomPatches	elec2	0.5784	0.2787	24.52	1780.83
CapyMOA	StreamingRandomPatches	phishing	0.5556	0.0795	0.64	1725.42
CapyMOA	StreamingRandomPatches	smtp	0.9997	0.0000	63.02	1729.64
CapyMOA	WeightedkNN	bananas	0.5314	0.3776	0.65	1776.94</

Performance Heatmap - Binary Classification

