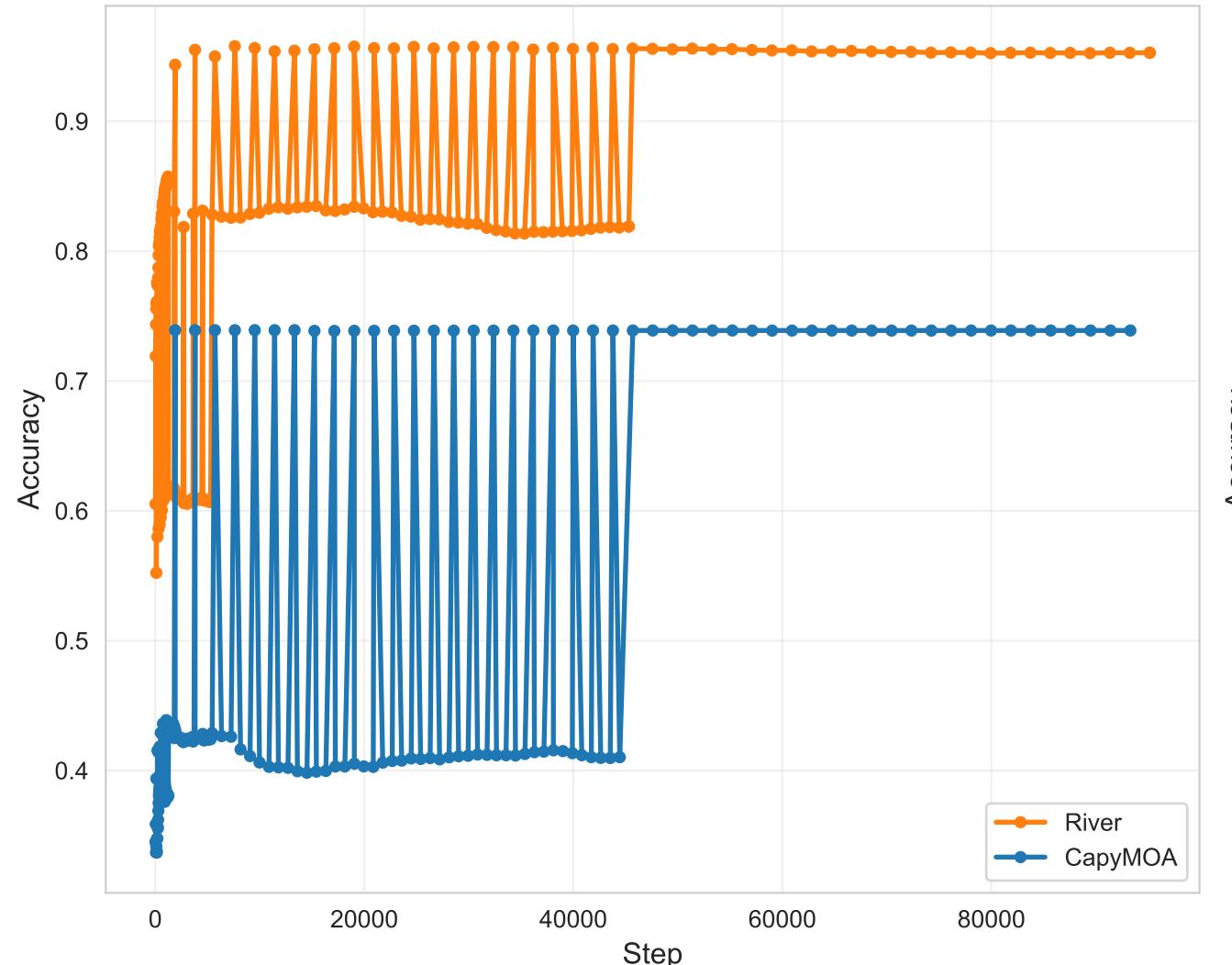
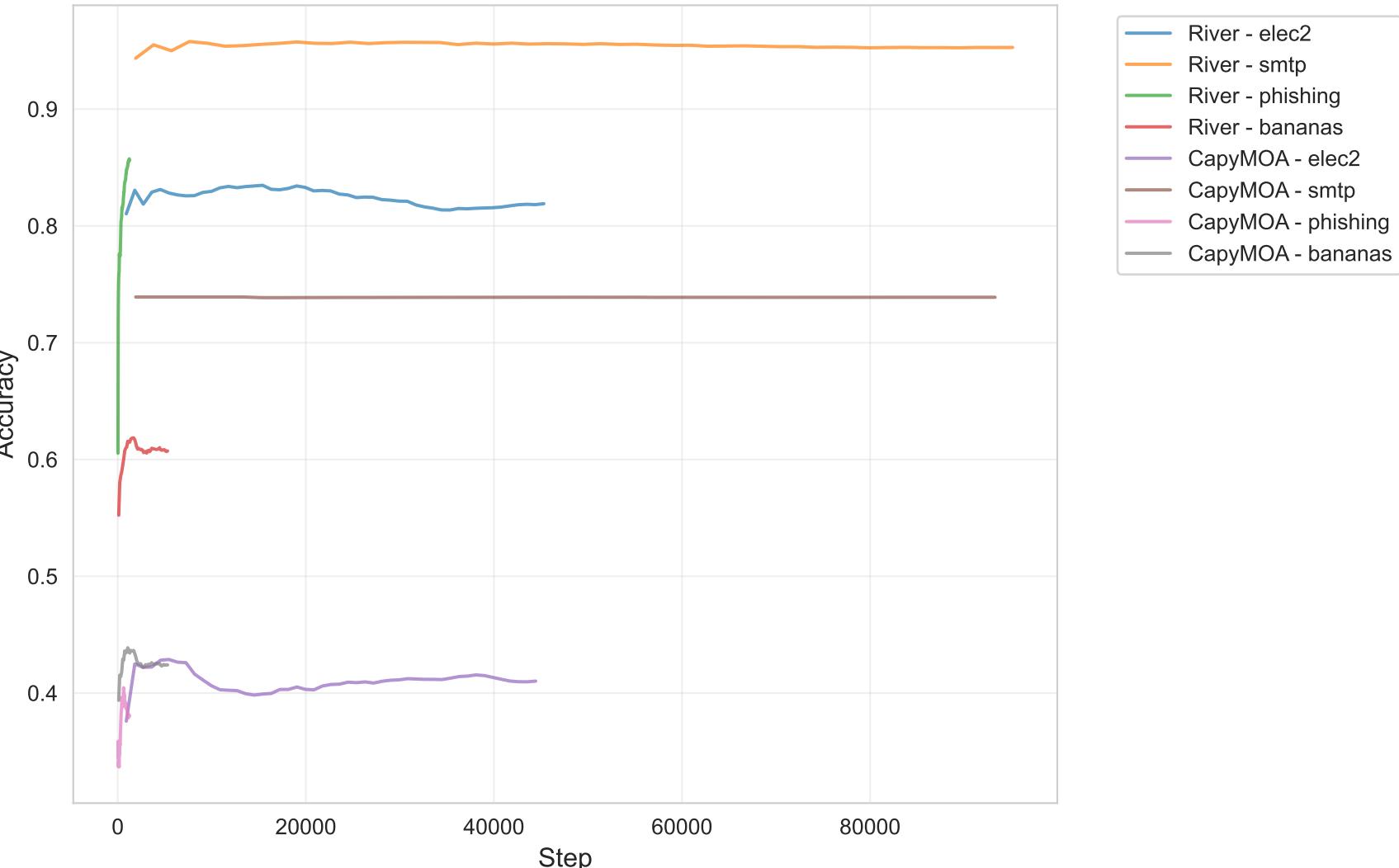


Accuracy Evolution - Binary Classification



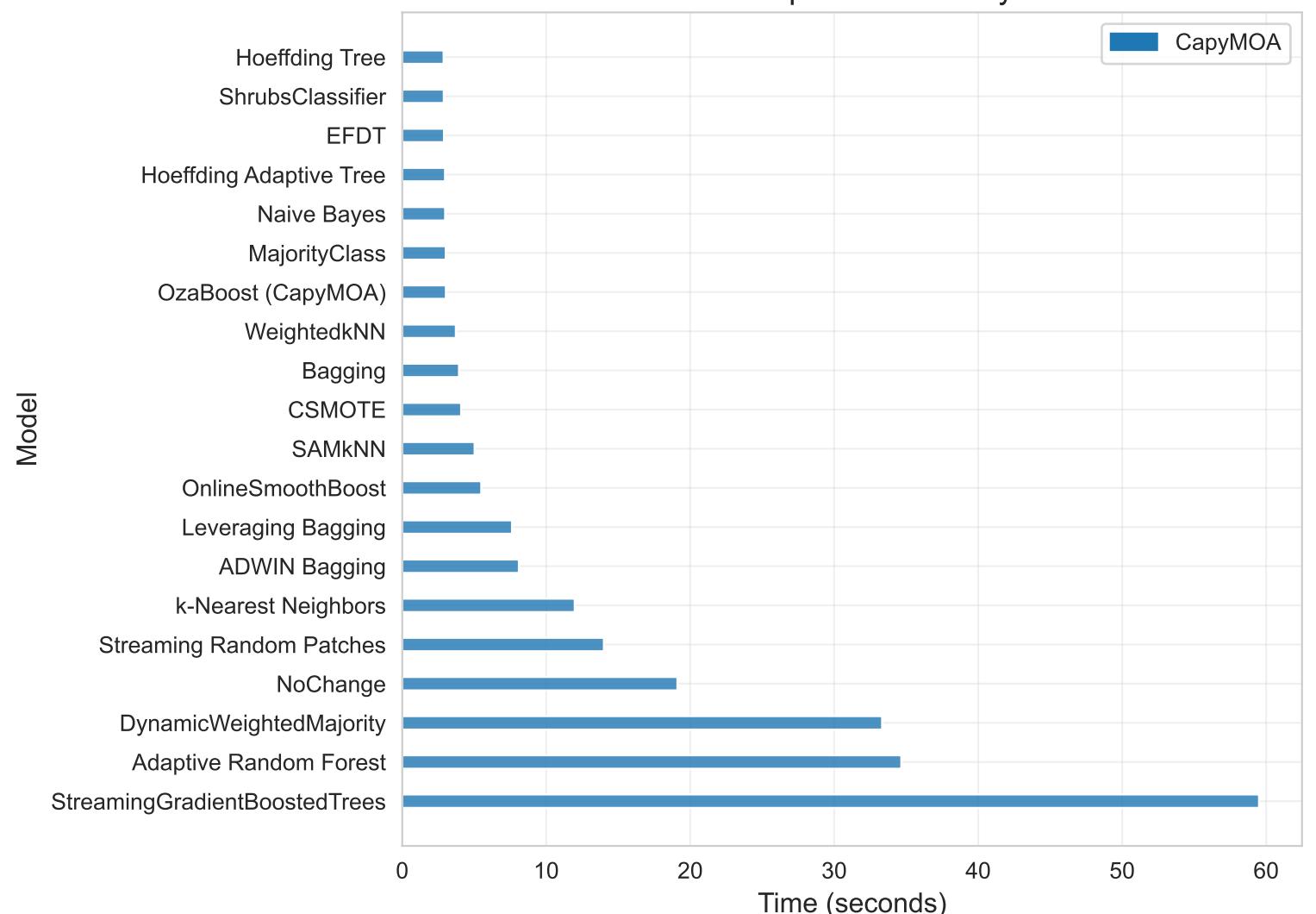
Accuracy Evolution by Dataset - Binary Classification



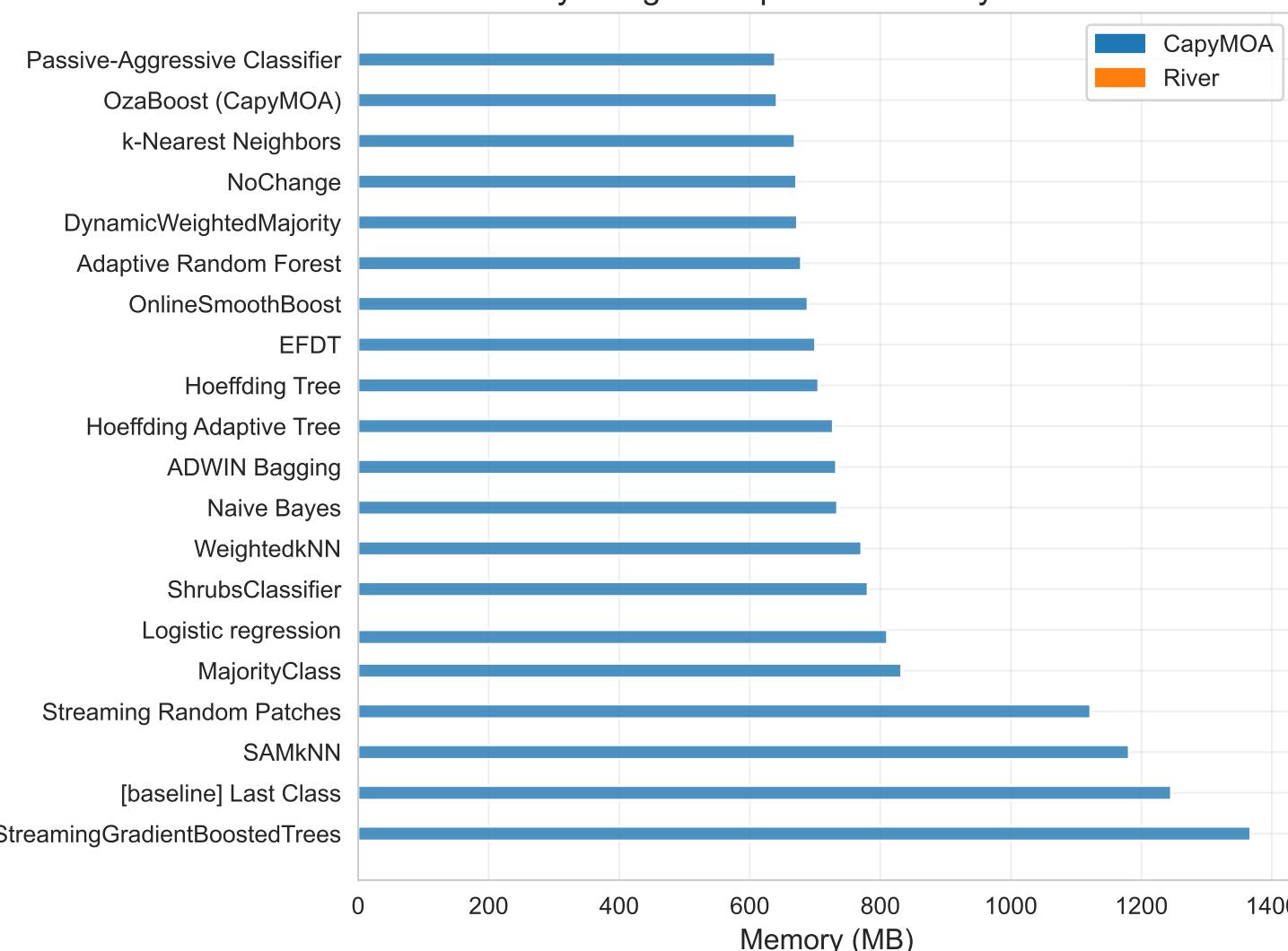
Legend:

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

Execution Time Comparison - Binary Classification



Memory Usage Comparison - Binary Classification



Summary Table - Binary Classification

Library	Model	Dataset	Accuracy	Time (s)	Memory (MB)
River	ALMA	bananas	0.5064	3856.78	0.00
River	ALMA	elec2	0.9064	5053.50	0.00
River	ALMA	phishing	0.8256	1172.97	0.00
River	ALMA	smtp	0.7650	4048.27	0.00
River	Aggregated Mondrian Forest	bananas	0.8894	5622.11	18.31
River	Aggregated Mondrian Forest	elec2	0.8499	11108.02	311.13
River	Aggregated Mondrian Forest	phishing	0.9047	4156.57	3.53
River	Aggregated Mondrian Forest	smtp	0.9999	3929.94	0.21
River	Logistic regression	bananas	0.5432	3366.59	0.00
River	Logistic regression	elec2	0.8221	5519.33	0.01
River	Logistic regression	phishing	0.8872	3325.37	0.01
River	Logistic regression	smtp	0.9998	3963.12	0.00
River	Vowpal Wabbit logistic regression	bananas	0.5513	3635.05	0.00
River	Vowpal Wabbit logistic regression	elec2	0.6975	5476.97	0.00
River	Vowpal Wabbit logistic regression	phishing	0.7736	3931.87	0.00
River	Vowpal Wabbit logistic regression	smtp	0.9997	4028.93	0.00
River	sklearn SGDClassifier	bananas	0.5464	3138.25	0.01
River	sklearn SGDClassifier	elec2	0.8191	4864.49	0.01
River	sklearn SGDClassifier	phishing	0.8896	1238.60	0.01
River	sklearn SGDClassifier	smtp	0.9997	5459.72	0.01
CapyMOA	AdaptiveRandomForestClassifier	bananas	0.0000	5.17	608.16
CapyMOA	AdaptiveRandomForestClassifier	elec2	0.0000	42.30	692.64
CapyMOA	AdaptiveRandomForestClassifier	phishing	0.0000	1.24	593.05
CapyMOA	AdaptiveRandomForestClassifier	smtp	0.0000	89.97	821.52
CapyMOA	CSMOTE	bananas	0.5513	1.51	615.92
CapyMOA	CSMOTE	elec2	0.5455	6.19	659.69
CapyMOA	CSMOTE	phishing	0.5568	0.23	610.89
CapyMOA	CSMOTE	smtp	0.9997	8.48	621.81
CapyMOA	DynamicWeightedMajority	bananas	0.0000	4.96	668.81
CapyMOA	DynamicWeightedMajority	elec2	0.0000	40.34	773.83
CapyMOA	DynamicWeightedMajority	phishing	0.0000	1.25	620.98
CapyMOA	DynamicWeightedMajority	smtp	0.0000	86.79	627.52
CapyMOA	EFDT	bananas	0.5513	0.40	696.25
CapyMOA	EFDT	elec2	0.5758	3.60	704.56
CapyMOA	EFDT	phishing	0.5568	0.10	699.66
CapyMOA	EFDT	smtp	0.9997	7.54	701.69
CapyMOA	HoeffdingAdaptiveTree	bananas	0.5517	0.42	783.72
CapyMOA	HoeffdingAdaptiveTree	elec2	0.5759	3.69	708.83
CapyMOA	HoeffdingAdaptiveTree	phishing	0.5424	0.11	786.72
CapyMOA	HoeffdingAdaptiveTree	smtp	0.9997	7.71	631.58
CapyMOA	HoeffdingTree	bananas	0.5513	0.40	701.89
CapyMOA	HoeffdingTree	elec2	0.5758	3.48	708.91
CapyMOA	HoeffdingTree	phishing	0.5568	0.10	704.91
CapyMOA	HoeffdingTree	smtp	0.9997	7.56	705.97
CapyMOA	KNN	bananas	0.5517	1.27	629.70
CapyMOA	KNN	elec2	0.5759	12.06	634.78
CapyMOA	KNN	phishing	0.5616	0.36	705.55
CapyMOA	KNN	smtp	0.9997	34.27	706.95
CapyMOA	LeveragingBagging	bananas	0.5511	1.09	630.17
CapyMOA	LeveragingBagging	elec2	0.5758	8.69	630.38
CapyMOA	LeveragingBagging	phishing	0.5544	0.25	629.41
CapyMOA	LeveragingBagging	smtp	0.9997	20.51	633.48
CapyMOA	MajorityClass	bananas	0.5513	0.41	827.47
CapyMOA	MajorityClass	elec2	0.5758	3.74	836.22
CapyMOA	MajorityClass	phishing	0.5568	0.10	832.22
CapyMOA	MajorityClass	smtp	0.9997	7.87	834.23
CapyMOA	NaiveBayes	bananas	0.5513	0.41	629.08
CapyMOA	NaiveBayes	elec2	0.5758	3.55	641.30
CapyMOA	NaiveBayes	phishing	0.5568	0.10	832.28
CapyMOA	NaiveBayes	smtp	0.9997	7.90	834.31
CapyMOA	NoChange	bananas	0.0000	3.00	703.00
CapyMOA	NoChange	elec2	0.0000	23.75	643.34
CapyMOA	NoChange	phishing	0.0000	0.67	632.50
CapyMOA	NoChange	smtp	0.0000	49.05	707.03
CapyMOA	OnlineAdwinBagging	bananas	0.5511	0.99	630.59
CapyMOA	OnlineAdwinBagging	elec2	0.5758	8.22	631.75
CapyMOA	OnlineAdwinBagging	phishing	0.5528	0.30	832.86
CapyMOA	OnlineAdwinBagging	smtp	0.9997	22.93	835.11
CapyMOA	OnlineBagging	bananas	0.5515	0.61	631.84
CapyMOA	OnlineBagging	elec2	0.5759	4.95	637.84
CapyMOA	OnlineBagging	phishing	0.5631	0.13	631.86
CapyMOA	OnlineBagging	smtp	0.9997	10.12	636.00
CapyMOA	OnlineSmoothBoost	bananas	0.5470	0.69	641.31
CapyMOA	OnlineSmoothBoost	elec2	0.5819	5.68	643.28
CapyMOA	OnlineSmoothBoost	phishing	0.5456	0.18	635.78
CapyMOA	OnlineSmoothBoost	smtp	0.9997	15.45	835.31
CapyMOA	OzaBoost	bananas	0.5508	0.43	633.84
CapyMOA	OzaBoost	elec2	0.5760	3.83	641.88
CapyMOA	OzaBoost	phishing	0.5616	0.10	643.36
CapyMOA	OzaBoost	smtp	0.9997	7.81	647.55
CapyMOA	PassiveAggressiveClassifier	bananas	0.0000	0.44	634.89
CapyMOA	PassiveAggressiveClassifier	elec2	0.0000	3.44	642.89
CapyMOA	PassiveAggressiveClassifier	phishing	0.0000	0.10	638.89
CapyMOA	PassiveAggressiveClassifier	smtp	0.0000	7.15	639.91
CapyMOA	SAMkNN	bananas	0.5502	0.56	1111.22
CapyMOA	SAMkNN	elec2	0.6160	4.07	1148.84
CapyMOA	SAMkNN	phishing	0.5624	0.23	1228.36
CapyMOA	SAMkNN	smtp	0.9997	15.29	1236.00
CapyMOA	SGDClassifier	bananas	0.0000	0.38	636.91
CapyMOA	SGDClassifier	elec2	0.0000	3.28	1328.00
CapyMOA	SGDClassifier	phishing	0.0000	0.09	636.91
CapyMOA	SGDClassifier	smtp	0.0000	7.18	640.91
CapyMOA	ShrubsClassifier	bananas	0.0000	0.39	851.00
CapyMOA	ShrubsClassifier	elec2	0.0000	3.57	859.00
CapyMOA	ShrubsClassifier	phishing	0.0000	0.09	706.03
CapyMOA	ShrubsClassifier	smtp	0.0000	7.53	708.03
CapyMOA	StreamingGradientBoostedTrees	bananas	1.0000	6.60	746.38
CapyMOA	StreamingGradientBoostedTrees	elec2	0.0000	69.28	1604.47
CapyMOA	StreamingGradientBoostedTrees	phishing	0.0000	1.67	763.91
CapyMOA	StreamingGradientBoostedTrees	smtp	1.0000	160.51	2354.30
CapyMOA	StreamingRandomPatches	bananas	0.5511	1.53	1237.27
CapyMOA	StreamingRandomPatches	elec2	0.5774	20.47	771.14
CapyMOA	StreamingRandomPatches	phishing	0.5552	0.36	1237.41
CapyMOA	StreamingRandomPatches	smtp	0.9997	33.70	1242.78
CapyMOA	WeightedkNN	bananas	0.5309	0.56	767.23
CapyMOA	WeightedkNN	elec2	0.5024	4.67	775.25
CapyMOA	WeightedkNN	phishing	0.4472	0.10	770.25
CapyMOA	WeightedkNN	smtp	0.9996	9.61	772.39
CapyMOA	[baseline] Last Class	bananas	0.5095	0.01	1239.78
CapyMOA	[baseline] Last Class	elec2	0.8534	0.06	1249.78
CapyMOA	[baseline] Last Class	phishing	0.5156	0.00	1245.78
CapyMOA	[baseline] Last Class	smtp	0.9996	0.11	1247.50

Performance Heatmap - Binary Classification

