Table 1: Generalized Linear Models: Ablation with respect to the dimensionality of the problem on 50 synthetic and 17 real-world datasets for scenarios 2 and 3. All results within two standard errors of the best average result for each scenario are marked in **bold**. Due to the limitations of the number of features in the real-world data, we can only use 5 datasets for 20 and one dataset for 50 dimensions. Overall, we find that the advantages of the in-context learning approach to deteriorate for higher dimensionalities, with the variational inference methods using a Gaussian approximation performing well for 20 dimensions. This finding is line with work by (Mittal et al., 2025a;b). For 50 dimensions we find that in many cases the used metrics do not allow to significantly discriminate the performance of the different approaches.

Scenario	Dim.	Model	Synthetic Evaluation			Real-World Evaluation		
Scenario	Dilli.	Model	C2ST (↓)	MMD (↓)	$W_2(\downarrow)$	C2ST (↓)	MMD (↓)	$W_2(\downarrow)$
		Laplace Approximation	$1.000 (\pm 0.000)$	4.853 (± 2.333)	5.770 (± 5.946)	1.000 (± 0.000)	2.572 (± 0.206)	0.809 (± 0.149)
		VI: DiagonalNormal	$0.957 (\pm 0.091)$	$3.906 (\pm 2.679)$	$5.628 (\pm 6.092)$	$0.892 (\pm 0.044)$	$0.847 (\pm 0.389)$	$0.530 (\pm 0.175)$
Scenario 2	5	VI: MultivariateNormal	$0.910~(\pm~0.131)$	$3.407 (\pm 2.781)$	$5.584 (\pm 6.104)$	$0.820 (\pm 0.031)$	$0.243~(\pm~0.148)$	$0.408 (\pm 0.118)$
	3	VI: Structured Normal	$0.908 (\pm 0.119)$	$3.139 (\pm 2.763)$	$5.480 (\pm 6.164)$	$0.824 (\pm 0.023)$	$0.215~(\pm~0.110)$	$0.392 (\pm 0.109)$
		VI: IAF	$0.968 \ (\pm \ 0.063)$	$4.416 (\pm 2.473)$	$7.474 (\pm 6.235)$	$0.888 (\pm 0.067)$	$0.921 \ (\pm \ 0.860)$	$0.942 (\pm 0.733)$
		ICL (ours)	$0.839 (\pm 0.072)$	0.707 (\pm 0.658)	1.111 (\pm 0.300)	0.768 (± 0.033)	$0.143 (\pm 0.089)$	0.411 (\pm 0.094)
		Laplace Approximation	$1.000 (\pm 0.000)$	$2.314 (\pm 0.237)$	$3.069 (\pm 1.168)$	1.000 (± 0.000)	$2.222 (\pm 0.018)$	$2.847 (\pm 0.305)$
Scenario 2		VI: DiagonalNormal	$0.904 (\pm 0.168)$	$1.292 (\pm 0.937)$	2.863 (\pm 0.919)	$0.990 (\pm 0.009)$	$1.277 (\pm 0.452)$	$2.483 (\pm 0.318)$
	20	VI: MultivariateNormal VI: Structured Normal	$0.851 (\pm 0.134)$	0.492 (± 0.547)	2.694 (\pm 0.916)	0.843 (± 0.069)	$0.243 (\pm 0.170)$	2.166 (± 0.266)
		VI: Structured Normal	0.697 (\pm 0.065) 0.916 (\pm 0.110)	0.070 (\pm 0.099) 1.062 (\pm 1.076)	2.497 (\pm 0.993) 4.191 (\pm 0.623)	0.655 (\pm 0.031) 0.952 (\pm 0.025)	0.029 (\pm 0.025) 0.515 (\pm 0.242)	2.191 (\pm 0.271) 3.331 (\pm 0.371)
		ICL (ours)	$0.910 (\pm 0.110)$ $0.955 (\pm 0.057)$	$1.002 (\pm 1.076)$ $1.131 (\pm 1.035)$	$4.191 (\pm 0.023)$ $4.945 (\pm 0.836)$	$0.952 (\pm 0.023)$ $0.968 (\pm 0.020)$	$0.724 (\pm 0.278)$	$4.356 (\pm 0.302)$
		Laplace Approximation	1.000 (± 0.000)	2.437 (± 0.271)	5.728 (± 1.358)	1.000 (± nan)	2.350 (± nan)	5.620 (± nan)
		VI: DiagonalNormal	0.853 (\pm 0.182)	$0.787 (\pm 0.687)$	6.224 (\pm 1.225)	0.996 (± nan)	$1.080 (\pm nan)$	$5.426 (\pm \text{nan})$
		VI: MultivariateNormal	0.878 (\pm 0.150)	0.688 (\pm 0.620)	6.206 (\pm 1.244)	$0.994 (\pm nan)$	$0.791 (\pm \text{nan})$	$5.305 (\pm nan)$
Scenario 2	50	VI: Structured Normal	$0.865 (\pm 0.081)$	0.186 (\pm 0.169)	$5.874 (\pm 1.233)$	$0.819 (\pm nan)$	$0.093 (\pm nan)$	5.660 (± nan)
		VI: IAF	0.909 (± 0.130)	$0.649 (\pm 0.650)$	$7.465 (\pm 0.335)$	0.985 (± nan)	0.426 (± nan)	6.426 (± nan)
		ICL (ours)	$0.972 \ (\pm \ 0.039)$	$0.741 (\pm 0.713)$	$8.313 (\pm 0.608)$	0.971 (± nan)	$0.405~(\pm~nan)$	$7.718 (\pm nan)$
		Laplace Approximation	$1.000 (\pm 0.000)$	$2.203~(\pm~0.997)$	$1.170 (\pm 0.949)$	$1.000 (\pm 0.000)$	$1.841 (\pm 0.185)$	$0.729 (\pm 0.175)$
		VI: DiagonalNormal	$0.866 (\pm 0.101)$	$1.069 (\pm 1.150)$	$0.846 (\pm 0.747)$	$0.797 (\pm 0.083)$	$0.526~(\pm~0.361)$	$0.480 \ (\pm \ 0.207)$
Scenario 3	5	VI: MultivariateNormal	$0.656 (\pm 0.131)$	$0.445 \ (\pm \ 1.061)$	$0.660 (\pm 0.737)$	$0.560 (\pm 0.035)$	$0.032 (\pm 0.028)$	$0.249 \ (\pm \ 0.069)$
Section 5	3	VI: Structured Normal	$0.653 (\pm 0.125)$	$0.421 (\pm 0.993)$	$0.659 (\pm 0.736)$	$0.552 (\pm 0.028)$	$0.027 (\pm 0.015)$	$0.239 (\pm 0.055)$
		VI: IAF	$0.751 (\pm 0.148)$	$0.939 (\pm 1.349)$	$0.964 (\pm 0.924)$	$0.673 (\pm 0.141)$	$0.399 (\pm 0.543)$	$0.563 (\pm 0.433)$
		ICL (ours)	0.611 (\pm 0.070)	0.089 (± 0.114)	$0.423 (\pm 0.348)$	0.576 (± 0.027)	$0.037 (\pm 0.026)$	$0.257 (\pm 0.044)$
		Laplace Approximation	$1.000 (\pm 0.000)$	$2.726 (\pm 1.116)$	$4.127 (\pm 1.927)$	1.000 (± 0.000)	$2.234 (\pm 0.092)$	$3.589 (\pm 0.519)$
		VI: DiagonalNormal	0.912 (\pm 0.134)	1.704 (± 1.467)	3.933 (\pm 1.574)	0.983 (± 0.014)	$1.298 (\pm 0.443)$	$3.147 (\pm 0.557)$
Scenario 3	20	VI: MultivariateNormal VI: Structured Normal	0.863 (\pm 0.113) 0.768 (\pm 0.109)	0.937 (\pm 1.174) 0.302 (\pm 0.518)	3.754 (\pm 1.650) 3.151 (\pm 1.663)	0.796 (\pm 0.099) 0.722 (\pm 0.073)	0.268 (\pm 0.226) 0.131 (\pm 0.141)	2.645 (\pm 0.466) 2.579 (\pm 0.399)
		VI: IAF	0.708 (\pm 0.109) 0.908 (\pm 0.133)	1.657 (\pm 1.476)	$5.543 (\pm 1.120)$	$0.722 (\pm 0.073)$ $0.936 (\pm 0.041)$	$0.548 (\pm 0.341)$	$3.678 (\pm 0.670)$
		ICL (ours)	0.902 (\pm 0.076)	1.053 (\pm 0.782)	$6.206 (\pm 0.783)$	$0.930 (\pm 0.011)$ $0.932 (\pm 0.019)$	$0.635 (\pm 0.183)$	$5.281 (\pm 0.317)$
		Laplace Approximation	1.000 (± 0.000)	2.700 (± 0.789)	8.841 (± 1.691)	1.000 (± nan)	2.348 (± nan)	7.049 (± nan)
		VI: DiagonalNormal	$0.870 (\pm 0.127)$	1.154 (± 1.321)	9.180 (± 1.513)	0.997 (± nan)	1.393 (± nan)	6.791 (± nan)
Scenario 3	50	VI: MultivariateNormal	$0.896 \ (\pm \ 0.101)$	1.027 (\pm 1.157)	9.175 (\pm 1.555)	0.998 (± nan)	$1.092 (\pm \text{nan})$	6.667 (\pm nan)
Scenario 3	30	VI: Structured Normal	$0.873 (\pm 0.112)$	$0.539 (\pm 0.667)$	9.118 (\pm 1.538)	0.958 (± nan)	$0.420 \ (\pm \ nan)$	$6.665 (\pm nan)$
		VI: IAF	$0.869 (\pm 0.124)$	$0.751 \ (\pm \ 0.939)$	9.917 (\pm 0.870)	$0.971 (\pm \text{ nan})$	$0.417 (\pm \text{ nan})$	$7.411 (\pm nan)$
		ICL (ours)	$0.931 (\pm 0.062)$	$0.784 (\pm 0.884)$	$10.063 (\pm 0.930)$	0.965 (± nan)	0.347 (± nan)	8.482 (± nan)
		Laplace Approximation	$1.000 (\pm 0.000)$	$2.060 (\pm 0.472)$	$0.797 (\pm 0.577)$	1.000 (± 0.000)	$1.982 (\pm 0.126)$	$0.623 (\pm 0.084)$
		VI: DiagonalNormal	$0.866 (\pm 0.085)$	$0.954 (\pm 1.022)$	$0.651 (\pm 0.549)$	$0.810 (\pm 0.036)$	$0.441 (\pm 0.252)$	$0.384 (\pm 0.089)$
Scenario 5	5	VI: MultivariateNormal VI: Structured Normal	$0.765 (\pm 0.100)$ $0.758 (\pm 0.098)$	$0.537 (\pm 1.019)$ $0.447 (\pm 0.818)$	$0.633 (\pm 1.067)$ $0.572 (\pm 0.816)$	$0.711 (\pm 0.038)$ $0.705 (\pm 0.032)$	$0.148 (\pm 0.093)$ $0.140 (\pm 0.081)$	0.279 (\pm 0.056) 0.269 (\pm 0.045)
		VI: IAF	$0.738 (\pm 0.098)$ $0.814 (\pm 0.105)$	$0.953 (\pm 1.165)$	$0.881 (\pm 1.067)$	$0.703 (\pm 0.032)$ $0.777 (\pm 0.106)$	$0.684 (\pm 0.939)$	$0.625 (\pm 0.525)$
		ICL (ours)	$0.621 (\pm 0.063)$	$0.953 (\pm 1.103)$ $0.067 (\pm 0.080)$	$0.381 (\pm 1.007)$ $0.299 (\pm 0.195)$	$0.610 (\pm 0.045)$	$0.046 (\pm 0.020)$	$0.023 (\pm 0.0323)$ $0.242 (\pm 0.038)$
Scenario 5 20		Laplace Approximation	1.000 (± 0.000)	2.367 (± 0.555)	2.780 (± 1.271)	1.000 (± 0.000)	2.200 (± 0.041)	2.444 (± 0.619)
		VI: DiagonalNormal	0.938 (± 0.098)	1.153 (± 0.954)	$2.552 (\pm 1.147)$	0.967 (± 0.012)	$0.547 (\pm 0.233)$	1.973 (\pm 0.452)
	20	VI: MultivariateNormal	$0.929 (\pm 0.082)$	$0.710 (\pm 0.768)$	$2.473 (\pm 1.145)$	0.928 (± 0.016)	$0.250 (\pm 0.079)$	1.776 (\pm 0.399)
		VI: Structured Normal	$0.909 (\pm 0.082)$	$0.397 \ (\pm \ 0.442)$	2.246 (\pm 1.244)	0.924 (\pm 0.018)	$0.202 \ (\pm \ 0.094)$	1.775 (± 0.430)
		VI: IAF	$0.934 \ (\pm \ 0.092)$	$1.325~(\pm~1.161)$	$4.899 (\pm 1.320)$	0.980 (± 0.016)	$0.892 (\pm 0.404)$	$3.593 (\pm 0.597)$
		ICL (ours)	0.961 (± 0.046)	$1.330 (\pm 1.125)$	$5.084 (\pm 1.297)$	0.981 (± 0.014)	$1.162 (\pm 0.461)$	$4.804 (\pm 0.578)$
		Laplace Approximation	$1.000 (\pm 0.000)$	$2.582 (\pm 0.606)$	5.765 (\pm 1.540)	1.000 (± nan)	$2.322~(\pm~nan)$	$3.485~(\pm~nan)$
		VI: DiagonalNormal	$0.925 (\pm 0.074)$	$0.925 (\pm 1.056)$	6.461 (\pm 1.877)	0.972 (± nan)	$0.186 (\pm \text{nan})$	3.251 (\pm nan)
Scenario 5	50	VI: MultivariateNormal	0.934 (± 0.064)	$0.825 (\pm 0.972)$	6.404 (± 1.882)	0.969 (± nan)	0.165 (± nan)	3.223 (± nan)
		VI: Structured Normal	$0.927 (\pm 0.068)$	0.481 (± 0.588)	6.420 (± 1.970)	0.961 (± nan)	0.072 (± nan)	3.324 (± nan)
		VI: IAF	$0.925 (\pm 0.069)$	$0.792 (\pm 0.975)$	$8.458 (\pm 0.864)$	0.996 (± nan)	$0.519 (\pm \text{nan})$	4.645 (± nan)
		ICL (ours)	$0.998 (\pm 0.002)$	$0.762 \ (\pm \ 0.987)$	$8.195 (\pm 0.820)$	$1.000 (\pm nan)$	$0.984 (\pm nan)$	7.288 (\pm nan)

Table 2: Evaluating the predictive performance across 50 synthetic and 17 real-world datasets in GLM scenario 2 for different dimensionalities. All results within two standard errors of the best average result for each scenario are marked in **bold**. Due to the limitations of the number of features in the real-world data, we can only use 5 datasets for 20 and one dataset for 50 dimensions. We find that the quality of the samples by the in-context learner, when evaluated based on predictive performance, decreases consistently with an increase in the dimensionality of the problem.

Scenario Dim.		Model	$RMSE\ Real\text{-}World\ (\downarrow)$	RMSE Synthetic (↓)	
		НМС	0.559 (± 0.023)	0.556 (± 0.049)	
		Laplace Approximation	$0.561 \ (\pm \ 0.022)$	$0.557 \ (\pm \ 0.049)$	
		VI: DiagonalNormal	$0.560 \ (\pm \ 0.023)$	$0.557 \ (\pm \ 0.049)$	
		VI: MultivariateNormal	$0.559 \ (\pm \ 0.023)$	$0.556 \ (\pm \ 0.049)$	
Scenario 2	5	VI: Structured Normal	$0.604 \ (\pm \ 0.016)$	$0.685~(\pm~0.054)$	
		VI: IAF	$0.563 \ (\pm \ 0.023)$	$0.557 \ (\pm \ 0.049)$	
		ICL (ours)	$0.561 \ (\pm \ 0.019)$	$0.653 \ (\pm \ 0.049)$	
		MAP	$0.513~(\pm~0.023)$	$0.522 (\pm 0.048)$	
		TabPFN	$0.449 \ (\pm \ 0.034)$	$0.498~(\pm~0.047)$	
		НМС	0.682 (± 0.029)	0.536 (± 0.041)	
		Laplace Approximation	$0.682 \ (\pm \ 0.030)$	$0.538 \ (\pm \ 0.040)$	
		VI: DiagonalNormal	$0.680 \ (\pm \ 0.029)$	$0.539 \ (\pm \ 0.041)$	
		VI: MultivariateNormal	$0.685 \ (\pm \ 0.029)$	$0.537 \ (\pm \ 0.041)$	
Scenario 2	20	VI: Structured Normal	$0.746 (\pm 0.019)$	$0.681 (\pm 0.041)$	
		VI: IAF	$0.683 \ (\pm \ 0.029)$	$0.539 \ (\pm \ 0.041)$	
		ICL (ours)	$0.777~(\pm~0.011)$	$1.122~(\pm~0.078)$	
		MAP	$0.578 (\pm 0.025)$	$0.472 (\pm 0.039)$	
		TabPFN	$0.470 \ (\pm \ 0.044)$	$0.446 (\pm 0.038)$	
		НМС	0.669 (± nan)	0.713 (± 0.060)	
		Laplace Approximation	$0.594 (\pm \text{nan})$	$0.878 (\pm 0.068)$	
		VI: DiagonalNormal	$0.582~(\pm~{ m nan})$	$0.870 (\pm 0.065)$	
		VI: MultivariateNormal	$0.729~(\pm~{ m nan})$	$0.764 \ (\pm \ 0.066)$	
Scenario 2	50	VI: Structured Normal	$0.922~(\pm~{ m nan})$	$1.116 (\pm 0.074)$	
		VI: IAF	$0.695~(\pm~{\rm nan})$	$0.770 \ (\pm \ 0.060)$	
		ICL (ours)	$1.256~(\pm~\mathrm{nan})$	$2.343~(\pm~0.230)$	
		MAP	0.301 (± nan)	$0.398 (\pm 0.047)$	
		TabPFN	$0.235~(\pm { m nan})$	$0.570 (\pm 0.053)$	

Table 3: Evaluating the predictive performance across 50 synthetic and 17 real-world datasets in GLM scenario 2 for different dimensionalities. All results within two standard errors of the best average result for each scenario are marked in **bold**. Due to the limitations of the number of features in the real-world data, we can only use 5 datasets for 20 and one dataset for 50 dimensions. We find that the quality of the samples by the in-context learner, when evaluated based on predictive performance, decreases consistently with an increase in the dimensionality of the problem.

Scenario	rio Dim. Model		$RMSE\ Real\text{-}World\ (\downarrow)$	RMSE Synthetic (\downarrow)	
		НМС	0.684 (± 0.027)	0.512 (± 0.040)	
		Laplace Approximation	$0.688 \ (\pm \ 0.026)$	$0.516 \ (\pm \ 0.040)$	
		VI: DiagonalNormal	$0.686 \ (\pm \ 0.027)$	$0.513 \ (\pm \ 0.040)$	
		VI: MultivariateNormal	$0.685 \ (\pm \ 0.027)$	$0.512 \ (\pm \ 0.040)$	
Scenario 3	5	VI: Structured Normal	$0.733 \ (\pm \ 0.016)$	$0.607 (\pm 0.043)$	
		VI: IAF	$0.686 \ (\pm \ 0.027)$	$0.512 \ (\pm \ 0.040)$	
		ICL (ours)	$0.690 \ (\pm \ 0.023)$	$0.588 \ (\pm \ 0.045)$	
		MAP	$0.646 (\pm 0.028)$	$0.495 (\pm 0.039)$	
		TabPFN	$0.556 (\pm 0.041)$	$0.462~(\pm~0.037)$	
		HMC	1.030 (± 0.045)	0.621 (± 0.046)	
		Laplace Approximation	$1.053 (\pm 0.047)$	$0.755 (\pm 0.052)$	
		VI: DiagonalNormal	$1.035 (\pm 0.043)$	$0.734 (\pm 0.053)$	
		VI: MultivariateNormal	$1.033 (\pm 0.039)$	$0.705 \ (\pm \ 0.055)$	
Scenario 3	20	VI: Structured Normal	$1.095 (\pm 0.045)$	$1.033 (\pm 0.063)$	
		VI: IAF	$1.026 (\pm 0.045)$	$0.653 \ (\pm \ 0.047)$	
		ICL (ours)	$1.770 (\pm 0.048)$	$2.160 (\pm 0.217)$	
		MAP	$0.861 (\pm 0.038)$	$0.581 (\pm 0.050)$	
		TabPFN	$0.654 (\pm 0.062)$	$0.475~(\pm~0.039)$	
		HMC	0.858 (± nan)	0.645 (± 0.051)	
		Laplace Approximation	$0.866 (\pm \mathrm{nan})$	$0.865 (\pm 0.083)$	
		VI: DiagonalNormal	$0.788 \ (\pm \ \text{nan})$	$0.870 (\pm 0.084)$	
		VI: MultivariateNormal	$0.819 (\pm \text{nan})$	$0.778 (\pm 0.066)$	
Scenario 3	50	VI: Structured Normal	$0.812~(\pm {\rm nan})$	$1.040 (\pm 0.103)$	
		VI: IAF	$0.802~(\pm~{\rm nan})$	$0.846 (\pm 0.078)$	
		ICL (ours)	$1.686~(\pm~\mathrm{nan})$	$3.477 (\pm 0.604)$	
		MAP	0.539 (± nan)	$0.618 (\pm 0.054)$	
		TabPFN	$0.322 \ (\pm \ \text{nan})$	$0.534 (\pm 0.038)$	

Table 4: Evaluating the predictive performance across 50 synthetic and 17 real-world datasets in GLM scenario 2 for different dimensionalities. All results within two standard errors of the best average result for each scenario are marked in **bold**. Due to the limitations of the number of features in the real-world data, we can only use 5 datasets for 20 and one dataset for 50 dimensions. We find that the quality of the samples by the in-context learner, when evaluated based on predictive performance, decreases consistently with an increase in the dimensionality of the problem.

Scenario Dim.		Model	$RMSE\ Real\text{-}World\ (\downarrow)$	RMSE Synthetic (\downarrow)
		НМС	0.699 (± 0.022)	0.490 (± 0.036)
		Laplace Approximation	$0.699 \ (\pm \ 0.022)$	$0.491 \ (\pm \ 0.036)$
		VI: DiagonalNormal	$0.702 \ (\pm \ 0.022)$	$0.491 \ (\pm \ 0.036)$
		VI: MultivariateNormal	$0.698 \ (\pm \ 0.021)$	$0.491 \ (\pm \ 0.036)$
Scenario 5	5	VI: Structured Normal	$1.507 (\pm 0.089)$	$0.741 (\pm 0.053)$
		VI: IAF	$0.699 \ (\pm \ 0.022)$	$0.490 \ (\pm \ 0.036)$
		ICL (ours)	$0.769 \ (\pm \ 0.020)$	$0.701~(\pm~0.049)$
		MAP	$0.658 (\pm 0.022)$	$0.471 (\pm 0.035)$
		TabPFN	$0.534 (\pm 0.040)$	$0.442~(\pm~0.035)$
		НМС	1.527 (± 0.055)	0.553 (± 0.044)
		Laplace Approximation	1.585 (\pm 0.065)	0.586 (\pm 0.043)
		VI: DiagonalNormal	1.554 (\pm 0.058)	$0.586 (\pm 0.042)$
		VI: MultivariateNormal	$1.530 (\pm 0.058)$	$0.564 \ (\pm \ 0.043)$
Scenario 5	20	VI: Structured Normal	$2.109 (\pm 0.156)$	$1.054 (\pm 0.067)$
		VI: IAF	$1.548 (\pm 0.057)$	$0.562 \ (\pm \ 0.043)$
		ICL (ours)	$3.545~(\pm~0.288)$	$1.626~(\pm~0.140)$
		MAP	$1.254 (\pm 0.027)$	$0.464 (\pm 0.035)$
		TabPFN	$0.668 \ (\pm \ 0.064)$	$0.413~(\pm~0.032)$
		НМС	1.626 (± nan)	0.521 (± 0.028)
		Laplace Approximation	$1.541 \ (\pm \ \text{nan})$	$0.655 (\pm 0.040)$
		VI: DiagonalNormal	$1.576 \ (\pm \ \text{nan})$	$0.639 (\pm 0.041)$
		VI: MultivariateNormal	$1.659 (\pm \text{nan})$	$0.592 (\pm 0.035)$
Scenario 5	50	VI: Structured Normal	$2.076~(\pm~{\rm nan})$	$1.018 (\pm 0.102)$
		VI: IAF	$1.706 \ (\pm \ \mathrm{nan})$	$0.627 (\pm 0.040)$
		ICL (ours)	$10.319 (\pm \mathrm{nan})$	$1.458 \ (\pm \ 0.193)$
		MAP	1.318 (± nan)	$0.416 (\pm 0.018)$
		TabPFN	$0.330 (\pm \text{nan})$	$0.443 (\pm 0.024)$

References

Mittal, S., Bengio, Y., Malkin, N., and Lajoie, G. In-context parametric inference: Point or distribution estimators? *arXiv* preprint arXiv:2502.11617, 2025a.

Mittal, S., Bracher, N. L., Lajoie, G., Jaini, P., and Brubaker, M. Amortized in-context bayesian posterior estimation. *arXiv* preprint arXiv:2502.06601, 2025b.