Table 1: Results on additional datasets. The bold text denotes the best performance, while the underlined text indicates the second-best performance. 'N/A' indicates that the model has limitations preventing it from running on the dataset.

dataset	shot	logreg	knn	TabPFN	FeatLLM	ProtoLLM
arrhythmia	1	72.16±9.09	52.48±0.00	N/A	N/A	**72.49±5.24**
	2	77.70±3.11	67.01±2.19	N/A	N/A	**78.11±4.33**
	4	N/A	N/A	N/A	N/A	N/A
	8	N/A	N/A	N/A	N/A	N/A
balance-scale	1	61.32±11.74	57.22±9.56	63.05±11.10	66.63±8.43	**69.15±3.60**
	2	66.87±10.51	63.85±7.37	**78.01±6.46**	66.03±2.98	71.26±3.76
	4	75.24±8.31	69.97±3.97	**87.37±4.94**	78.64±10.76	73.83±4.16
	8	85.87±6.07	74.70±5.08	**94.49±2.09**	82.32±4.93	76.38±4.03
cmc	1	52.48±6.77	52.13±4.18	54.13±5.52	53.88±5.28	**54.39±5.67**
	2	54.14±5.47	52.04±4.32	53.84±5.50	**56.37±5.84**	54.72±4.29
	4	57.04±4.36	56.48±3.35	**58.42±2.89**	57.14±3.39	57.72±4.22
	8	59.97±4.08	60.03±4.66	**61.23±5.00**	60.70±4.59	60.92±2.59
colic	1	56.60±17.65	53.92±13.21	58.73±18.66	**84.69±5.48**	66.28±14.18
	2	53.28±16.85	57.90±13.97	63.21±14.30	**82.60±9.69**	68.74±14.79
	4	72.91±15.60	72.83±13.81	73.64±11.97	**85.12±8.03**	77.50±11.11
	8	80.81±15.21	78.24±14.11	81.49±11.80	79.33±7.86	**81.57±14.50**
credit-g	1	51.34±7.43	50.39±4.00	52.12±6.94	55.40±5.89	**61.35±3.29**
	2	53.62±4.20	53.33±3.87	54.48±4.79	55.94±1.10	**62.25±2.86**
	4	56.45±5.59	54.26±4.91	57.66±4.79	57.42±3.10	**63.26±2.87**
	8	61.09±7.01	56.89±5.62	59.05±5.60	56.60±2.22	**64.52±3.28**
diabetes	1	57.72±15.43	56.24±9.01	56.95±14.11	**80.08±1.31**	75.55±3.33
	2	59.88±13.49	59.48±6.89	64.76±10.85	**80.28±0.75**	75.68±3.61
	4	68.54±9.24	63.70±8.14	70.68±7.86	**79.38±1.66**	75.76±3.78
	8	67.84±8.24	68.30±5.73	72.98±5.05	**80.15±1.35**	75.70±4.33
ecoli	1	**91.68±5.41**	70.13±0.00	86.65±7.32	58.87±0.00	73.74±4.42
	2	**92.94±4.76**	89.92±6.30	92.00±4.80	N/A	80.87±2.04
	4	N/A	N/A	N/A	N/A	N/A
	8	N/A	N/A	N/A	N/A	N/A
glass	1	70.90±5.99	67.61±3.52	**77.71±5.33**	N/A	72.86±5.76
	2	75.33±5.12	71.42±5.06	**79.91±3.40**	N/A	76.08±4.74
	4	79.99±4.13	75.18±4.17	**86.12±2.89**	N/A	77.25±4.41
	8	83.48±3.58	80.44±4.22	**88.48±3.42**	N/A	78.45±2.82
haberman	1	53.67±12.02	52.47±8.47	55.39±7.66	64.08±3.79	**66.58±6.24**
	2	55.57±9.11	53.80±5.59	56.45±7.48	65.77±5.25	**66.70±6.10**
	4	59.57±11.21	57.74±8.48	58.02±9.69	66.22±5.00	**66.58±5.88**
	8	62.06±15.10	58.53±10.50	61.61±11.06	**68.35±6.51**	66.72±6.23
heart-c	1	67.64±12.45	59.58±10.02	70.22±12.77	79.60±5.49	**80.96±5.35**
	2	73.24±16.29	69.34±10.84	80.43±9.50	83.03±4.91	**83.20±4.98**
	4	79.14±10.40	73.87±11.46	81.67±9.57	83.28±4.87	**84.63±5.70**
	8	82.69±5.44	84.04±4.20	84.51±4.17	85.43±4.32	**87.09±4.80**
lymph	1	**86.13±0.74**	81.36±3.99	84.61±7.29	85.71±8.53	59.99±9.82
	2	**87.64±8.05**	83.74±7.79	83.08±10.21	N/A	63.51±8.55
	4	N/A	N/A	N/A	N/A	N/A
	8	N/A	N/A	N/A	N/A	N/A
mushroom	1	80.94±16.42	71.60±12.41	69.07±13.30	89.56±16.20	**94.12±2.92**
	2	82.49±14.45	78.78±10.94	77.77±12.80	**96.01±3.79**	94.60±3.77
	4	91.74±5.91	84.83±5.61	88.39±6.49	**96.17±2.12**	96.03±2.57
	8	95.97±2.29	89.00±2.40	93.21±4.22	96.55±2.07	**96.83±1.54**
page-blocks	1	**84.41±5.07**	72.20±10.10	81.44±6.30	81.08±9.35	76.66±7.90
	2	**85.32±4.54**	77.71±6.30	84.81±6.95	84.64±6.84	79.76±6.16
	4	91.04±3.65	84.56±3.79	**92.72±3.22**	88.14±10.53	83.70±4.14
	8	93.89±1.92	89.22±2.42	**96.76±0.49**	93.94±2.47	85.46±3.77
soybean	1	94.31±1.84	82.02±2.62	N/A	N/A	**94.44±1.84**
	2	96.29±2.12	90.96±1.64	N/A	N/A	**97.20±1.04**
	4	98.25±0.49	96.18±1.02	N/A	N/A	**98.31±0.43**
	8	98.60±0.43	97.82±0.93	N/A	N/A	**98.70±0.41**
tae	1	51.52±8.33	49.14±7.57	52.17±9.03	**57.91±6.90**	52.20±6.60
	2	53.14±8.22	52.67±8.52	57.37±10.44	**61.75±7.81**	51.65±8.01
	4	53.32±6.37	52.54±5.24	**60.45±6.91**	60.21±8.43	53.48±7.61
	8	58.50±7.47	54.00±9.20	**65.28±6.92**	60.26±3.59	56.66±7.03
tic-tac-toe	1	55.21±5.27	53.65±4.69	48.99±5.30	**87.10±6.69**	53.05±7.61
	2	56.96±8.39	52.82±5.92	52.00±5.08	**75.37±4.64**	55.76±7.58
	4	57.67±9.26	54.78±8.04	56.49±5.75	**81.11±15.13**	59.04±8.91
	8	61.96±8.46	54.47±7.52	59.71±5.22	**80.92±14.75**	62.50±6.37
vehicle	1	**58.68±6.84**	55.94±4.45	58.20±6.15	53.50±6.22	56.91±5.81
	2	63.66±7.67	61.92±4.33	**68.45±6.12**	61.01±5.07	59.51±5.37
	4	72.39±7.58	66.59±3.81	**78.25±4.76**	N/A	60.88±4.28
	8	82.57±2.72	72.35±2.78	**85.92±2.72**	N/A	66.05±4.04

Table 2: Results on TabLLM and ProtoLLM with T0 as the Backbone.

Data	Shot	TabLLM	ProtoLLM(T0)
Adult	4	**83.57±2.69**	64.40±1.63
	8	**83.52±4.30**	79.98±3.99
	16	83.23±2.45	**83.38±4.31**
	32	82.60±4.14	**84.54±2.19**
	64	84.88±0.97	**85.30±1.33**
Bank	4	**62.51±8.95**	58.98±8.25
	8	63.19±5.79	**64.31±8.52**
	16	63.73±6.43	**71.23±6.45**
	32	66.51±3.92	**74.80±4.68**
	64	70.83±3.43	**78.89±4.25**
Blood	4	55.87±13.49	**59.61±16.31**
	8	**66.01±9.25**	64.12±9.40
	16	65.14±7.55	**70.20±8.74**
	32	69.95±3.39	**71.53±8.37**
	64	70.88±1.58	**74.82±5.53**
Car	4	**85.82±3.65**	74.64±3.37
	8	**87.43±2.56**	75.97±3.28
	16	**88.65±2.63**	78.22±2.98
	32	**89.02±1.50**	81.56±2.75
	64	**92.18±0.47**	85.35±2.57
Credit-g	4	51.90±9.40	**52.88±5.99**
	8	**56.42±12.89**	55.60±5.58
	16	60.38±14.03	**60.83±6.45**
	32	**68.64±3.86**	59.49±5.03
	64	**70.80±4.09**	64.69±5.06
Diabetes	4	70.42±3.69	**72.13±5.58**
	8	64.30±5.88	**71.94±7.80**
	16	67.34±2.79	**76.23±5.93**
	32	69.74±4.41	**80.14±3.80**
	64	71.56±4.55	**79.09±3.33**
Heart	4	59.74±4.49	**73.99±13.82**
	8	70.14±7.91	**82.40±8.78**
	16	81.72±3.92	**88.10±3.25**
	32	87.43±2.32	**89.14±1.96**
	64	89.78±2.59	**89.81±1.69**