

Feature Set	MetaQNN (CIFAR-10)	ResNets (TinyImageNet)	LSTM (Penn Treebank)	Cuda-Convnet (CIFAR-10)
TS	93.98 ± 0.15	86.52 ± 1.85	97.81 ± 2.45	95.54 ± 0.24
AP	27.45 ± 4.25	84.33 ± 1.7	16.11 ± 1.13	1.1 ± 0.6
HP	12.60 ± 1.79	8.78 ± 1.14	3.98 ± 0.88	18.19 ± 2.19
TS+AP	84.09 ± 1.4	88.82 ± 2.95	96.92 ± 2.8	95.36 ± 0.27
AP+HP	27.01 ± 5.2	81.71 ± 3.9	15.97 ± 2.57	21.65 ± 2.72
TS+AP+HP	94.44 ± 0.14	91.8 ± 1.1	98.24 ± 2.11	95.69 ± 0.15

Time-series features (TS) refers to the partially observed learning curves, architecture parameters (AP) refer to the number of layers and number of weights in a deep model, and hyperparameters (HP) refer to the optimization parameters such as learning rate. All results with SVR (RBF). 25