

Lab Task:

Models	Train Accuracy Digit (1797,64)	test Accuracy Digit (1797,64)	Train Accuracy (70000, 784)	Test Accuracy (70000, 784)
Logistic Regression	1.0	0.9555	0.862212	0.8194
Decision Tree	1.0	0.83611	0.99712	0.8769
Random Forest	1.0	0.8361	1.0	0.8769
SVM	1.0	0.975	1.0	0.81944
Naive Bayes	0.8622	0.81944	0.54719	0.55
KNN	0.9937	0.9944	0.9863	0.9712
ANN	0.9666	0.955	(0.9925)	(0.9797)

Please generate the above table and discuss the results in detail.

ANN	Number of hidden layers	Batch size	Train Accuracy, Test Acc
	3 (128,64,32)	8	(0.9894) (0.9745)
	3 (64,64,32)	16	(0.9787) (0.972)
	2 (64,32)	32	(0.9955) (0.9714)
	2 (128,64)	64	(0.9925) (0.9797)
	1(32)	128	(0.9557) (0.9528)