4. Result and Discussion:

Evaluation results:

Accuracy on Mnist:

Model	On validation set	On test set
VGG16	99.61%	99.68%
ResetNet164	99.72%	99.70%
MobileNet	99.63%	99.68%
WideResNet28-10	99.73%	99.76&

Table i

Precison on Mnist:

Model	On validation set	On test set
VGG16	98.58%	98.68%
ResetNet164	98.23%	98.54%
MobileNet	98.89%	98.93%
WideResNet28-10	98.71%	98.72%

Table ii

F1 Score on Mnist:

Model	On validation set	On test set
VGG16	99.58%	99.71%
ResetNet164	99.63%	99.74%
MobileNet	99.89%	99.90%
WideResNet28-10	99.78%	99.81%

Table iii

From the above results, we see that WideResNet28-10 having multiple layers provides a better accuracy, whereas MobileNet due to it's portable nature provides better precision and F1 Score. We also saw that MobileNet pre-trained being the smallest in size took the least run-time while evaluating the model.

