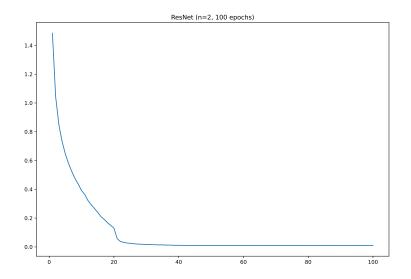
## COL775 Assignment 1

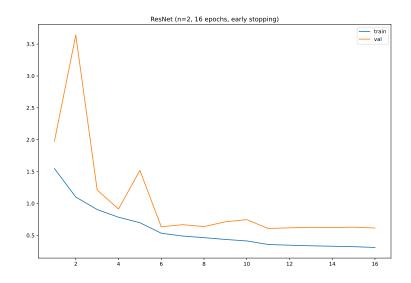
Aniruddha Deb 2020CS10869

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## 1 ResNet over CNN's and Different Normalization Schemes

## 1.1 Image Classification using ResNets





	Accuracy	F1 micro	F1 macro
train	0.916	0.916	0.916
val	0.797	0.797	0.796
test	0.791	0.791	0.790

## 1.2 Impact of Normalization

Norm	set	Accuracy	F1 micro	F1 macro
bn (torch)	train	0.913	0.913	0.913
	val	0.791	0.791	0.790
	test	0.783	0.783	0.783
bn	train	0.913	0.913	0.913
	val	0.782	0.782	0.781
	test	0.785	0.785	0.785
in	train	0.725	0.725	0.724
	val	0.684	0.684	0.682
	test	0.669	0.669	0.667
	train	0.933	0.933	0.932
bin	val	0.788	0.788	0.787
	test	0.780	0.780	0.780
	train	0.766	0.766	0.765
In	val	0.725	0.725	0.723
	test	0.727	0.727	0.725
	train	0.757	0.757	0.756
gn	val	0.706	0.706	0.705
	test	0.699	0.699	0.697
	train	0.737	0.737	0.736
nn	val	0.714	0.714	0.712
	test	0.706	0.706	0.705

