

# of Epochs	Learning Rate	Momentum	Weight Decay	Data augmentation	Accuracy (On UC Merced Land Use split)	Comments	Saved Model Path
30	0.001	0.9	None	Normalize((0.5, 0.5, 0.5), (0.5, 0.5, 0.5))	52%		
30	0.001	0.9	5 x 10 <sup>-4</sup>	Normalize((0.5, 0.5, 0.5), (0.5, 0.5, 0.5))	55%	added weight decay (not much change)	
30	0.001	0.9	5 x 10 <sup>-4</sup>	transforms. RandomHorizontalFlip(), Normalize((0.5, 0.5, 0.5), (0.5, 0.5, 0.5))	62%	added random horizontal flip for data augmentation	
40	0.001	0.9	5 x 10 <sup>-4</sup>	transforms. RandomHorizontalFlip(), Normalize((0.5, 0.5, 0.5), (0.5, 0.5, 0.5))	60%	Increased number of epochs - decrease in accuracy ?	
30	0.001	0.9	5 x 10 <sup>-4</sup>	transforms. RandomHorizontalFlip(), transforms.Normalize ((0.4714, 0.4786, 0.4490), (0.2153, 0.2040, 0.1967))	64%	Changed normalization based on the UC Merced Land Use dataset	
30	0.001	0.9	None	transforms. RandomHorizontalFlip(), transforms.Normalize ((0.4714, 0.4786, 0.4490), (0.2153, 0.2040, 0.1967))	75%	Got rid of weight decay	drive/My Drive/UCMerced_LandUse/Saved Models/net_noWeightDecay.pth
60	0.001	0.9	None	transforms. RandomHorizontalFlip(), transforms.Normalize ((0.4714, 0.4786, 0.4490), (0.2153, 0.2040, 0.1967))	66%	Ran transfer learning on above model (Got rid of weight decay)	
50	0.001	0.9	None	transforms. RandomHorizontalFlip(), transforms.Grayscale(3), transforms.Normalize ((0.4714, 0.4786, 0.4490), (0.2153, 0.2040, 0.1967))	84%	Added Grayscale tranform	drive/My Drive/UCMerced_LandUse/Saved Models/net_GrayScale.pth