

ROIECT

Object Classification

A part of the Deep Learning Nanodegree Foundation Program

Meets Spe	cifications		SHARE YOUR ACCOMPLISHMEN
You have obvio	ously put a lot of time and effort into this proj	ject. Your architecture is quite unique, it great to see this level of experiment and c	creativity.
Required F	iles and Tests		
~	The project submission contains the pro	oject notebook, called "dlnd_image_classification.ipynb".	
~	All the unit tests in project have passed.		
Preprocess	ing		
~	The normalize function normalizes ima	ge data in the range of 0 to 1, inclusive.	
~	The one_hot_encode function encodes la	abels to one-hot encodings.	
	Very creative coding using LabelBinarizer		
Neural Net	work Layers		
~	The neural net inputs functions have all		
	Well done. All placeholders are correctly i		
~	The convolutional layer should use a po		
	The convolutional layer should use a nonlinear activation. This function shouldn't use any of the tensorflow functions in the tf.contrib or tf.layers namespace.		
		en into functions but everything appears to be in place.	
~	The flatten function flattens a tensor	without affecting the batch size.	
	Well done in implementing flatten() using base tf functionality		
	Note: This functionality is also provided b	by the tf.contrib method tf.contrib.layers.flatten(x_tensor, num_outputs) .	
~		connected layer with a nonlinear activation.	
	Well done in implementing fully_conn() using base if functionality. Note: This functionality is also provided by the tf.contrib method tf.contrib.layers.fully_connected(x_tensor, num_outputs, activation_fn=tf.nn.relu)		
	The output function creates an output		tputs, activation_in-cr.im.retu).
Neural Net	work Architecture		
~	The conv_net function creates a convol	lutional model and returns the logits. Dropout should be applied to alt least one	e layer.
	Well done. A novel and innovative archite solution.	ecture. It is obvious that you have experimented with a range of convolutional netv	work paradigms in developing this
Neural Net	work Training		
~	The train_neural_network function opti	imizes the neural network.	
~	The print_stats function prints loss and validation accuracy.		
~	The hyperparameters have been set to reasonable numbers.		
~	The neural network validation and test	accuracy are similar. Their accuracies are greater than 50%.	
	Well done, your testing accuracy of 64% v	was well above the specification minimum testing accuracy of 50%.	
	My opinion is that your network has a few should be made.	w more percent of improvement, however given the nature of your network it is di	ifficult to identify where adjustment

RETURN TO PATH