| (| U UDACITY | Logout | | | |
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| | PROJECT | | | | |
| Object Classification A part of the Deep Learning Nanodegree Foundation Program | | | | | |
| PROJECT REVIEW | CODE REVIEW | | NOTES | | |
| | | | | | |
| Meets Specifications | | | SHARE YOUR ACCOMPLISHMENT | | |
| Great work on this project. You have met all the requirements of the project, a Good luck with the nanodegree! | and your network produces very good results. | | | | |
| Required Files and Tests | | | | | |
| The project submission contains the project noteboo | k, called "dlnd_image_classification.ipynb". | | | | |
| All the unit tests in project have passed. | | | | | |
| | | | | | |
| Preprocessing | and the second s | | | | |
| The normalize function normalizes image data in the | e range of 0 to 1, inclusive. | | | | |
| The one_bot_encode function encodes labels to one-hot encodings. Good work on implementing one_hot_encode . You could have also used LabelBinarizer or OneHotEncoder from scikit-learn. | | | | | |
| Good work on implementing one_hot_encode You cou | na nave also used LabelBinarizer or OneHotEncoder from sc | ıkıt-learn. | | | |
| Neural Network Layers | | | | | |
| The neural net inputs functions have all returned the correct TF Placeholder. | | | | | |
| You have correctly implemented all neural network inp | out functions! | | | | |
| The conv2d_maxpool function applies convolution and The convolutional layer should use a nonlinear activa | | | | | |
| This function shouldn't use any of the tensorflow functions in the tf.contrib or tf.layers namespace. | | | | | |
| Your implementation of conv2d_maxpool is great! | | | | | |
| The Flatter function flattens a tensor without affecting the batch size. | | | | | |
| Good | | | | | |
| The fully_conn function creates a fully connected la | yer with a nonlinear activation. | | | | |
| Very good. Impressive that you decided not to use Laye | ers and Layers (contrib) packages. | | | | |
| The output function creates an output layer with a li | inear activation. | | | | |
| Perfect | | | | | |
| Neural Network Architecture | | | | | |
| | el and returns the logits. Dropout should be applied to alt l | east one layer. | | | |
| Great! Your implementation of conv_net meets all the You can read more on convolutional network architects convolutional-neural-network-parameters | requirements. ures here: http://cs231n.github.io/convolutional-networks/# | architectures and http://stats.stackexchange | e.com/questions/148139/rules-for-selecting- | | |
| | | | | | |
| Neural Network Training | | | | | |
| The rain_neural_network function optimizes the neural network. You have correctly used session.run to perform NN training. | | | | | |
| The [print_stats function prints loss and validation accuracy. | | | | | |
| Yes, you have correctly set keep_prob = !! | | | | | |
| The hyperparameters have been set to reasonable numbers. | | | | | |
| Batch size of 256 is adequate. | | | | | |
| Keep probability is in a good range. The number of epochs also seems to work fine. | | | | | |
| The neural network validation and test accuracy are similar. Their accuracies are greater than 50%. Impressive results! Your test and validation accuracy are similar. It means that NN does not overfit to validation dataset and does not lose generalization on test dataset. | | | | | |
| | | | | | |
| | ₩ DOWNLOAD PROJECT | | | | |
| | | | | | |

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