To exit full screen, press and hold Esc etting Started with Al on Jetson Nano Course Progress Bookmarks Updates ting Started with Alion Jetson Nano - Image Classification - Assessment ted with Allon Previous Next 177 point (graded) What is "Classification" in Machine Learning? Jutline Mapping a group of inputs to discrete outputs Your Jetson Nano Classifying an input to a given set of categories Your Jetson Orin Predicting labels for input images aification All of the above eep Learning ~ donal Neural Networks Submit 18 Project s Project Data Collection What are the key points to keep in mind when cellecting image data? Try to provide different backgrounds so that model learns essential features Vary the light settings, so that model learns color variance. Collect the data with minimum labeling errors so that the data set will have less outliers and noise. Submit

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etting Started with AI on Jetson Nano Course Progress Bookmanks Updates ting Started with Allon Jetson Nano - Image Classification - Assessment ted with Allon Previous Next t Jutline 1/1 point (graded) What are the steps followed in the Classification Project? ○ Train Model->Collect Data->Live Demonstration Your Jetson Nano Collect Data->Train Model->Live Demonstration Your Jetson Orin ○ Live Demonstration->Train Data->Collect Data None of the above eep Learning ~ donal Neural Networks Submit 18 Project s Project Framework 1/1 point (graded) Which Deep Learning Framework was used to train the classification model? TensorFlow ○ TensorRT ○ MXNET None of the above

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etting Started with AI on Jetson Nano ourse Progress Bookmarks Updates ting Started with Alion Jetson Nano - Image Classification - Assessment ted with Allon Previous Next t outline 1/1 point (graded) What is Transfer Learning? A Use a pre-trained model so that we don't have to train at all Your Jetson Nano B. Use a pre-trained model so that we only need to train on new datasets Your Jetson Orin C. Do not use a pre-trained model, because that will reduce the accuracy for specific tasks D. Both options A and B eep Learning donal Neural Networks Submit 18 Project s Project For our projects, we modified the last-layer of a pre-trained ResNet-18 model. What kind of layer is it? ○ MaxPool layer Convolution Layer Fully Connected Layer O Dropout Layer

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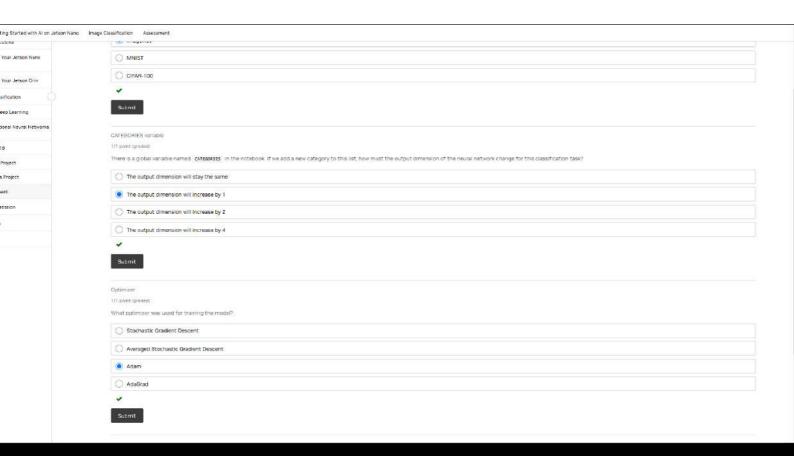
etting Started with AI on Jetson Nano ourse Progress Bookmarks Updates ting Started with Alion Jetson Nano - Image Classification - Assessment ted with Allon Previous Next t outline Data Sets 1/1 point (graded) We used a PyTorch provided pre-trained ResNet-18 architecture. What dataset was ResNet-18 pre-trained on? Your Jetson Nano О сосо Your Jetson Orin ImageNet ○ MNIST eep Learning CIFAR-100 donal Neural Networks 18 Project s Project Submit There is a global variable named. CATEGORIES. In the notebook, if we add a new category to this list, how must the output dimension of the neural network change for this classification test? The output dimension will stay the same The output dimension will increase by 1 The output dimension will increase by 2 The output dimension will increase by 4

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