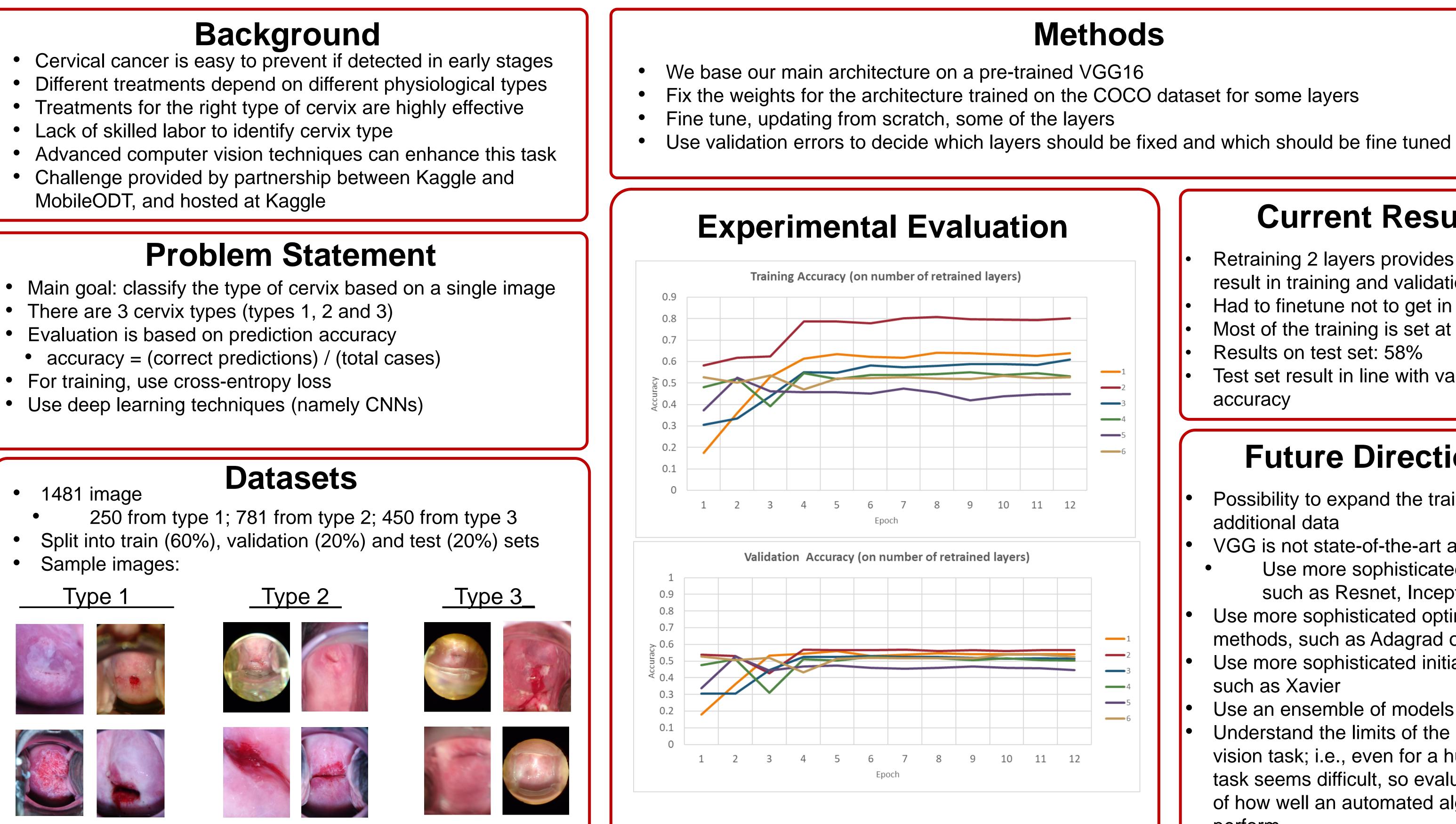
CS231N: Convolutional Neural Networks for Visual Recognition Cervix Type Classification (Kaggle) Sebastiano Bea, Kevin Poulet, Dan Zylberglejd Stanford University

- Challenge provided by partnership between Kaggle and MobileODT, and hosted at Kaggle

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- 250 from type 1; 781 from type 2; 450 from type 3



Current Results Retraining 2 layers provides the best result in training and validation accuracy Had to finetune not to get in local minima Most of the training is set at epoch 5 Results on test set: 58% Test set result in line with validation set accuracy ____ **Future Directions** Possibility to expand the training set with additional data VGG is not state-of-the-art anymore Use more sophisticated networks such as Resnet, Inception Use more sophisticated optimization methods, such as Adagrad or Adam Use more sophisticated initializations, such as Xavier Use an ensemble of models Understand the limits of the computer vision task; i.e., even for a human the task seems difficult, so evaluate the limits of how well an automated algorithm can perform.