

Agenda

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Possible challenges & further steps



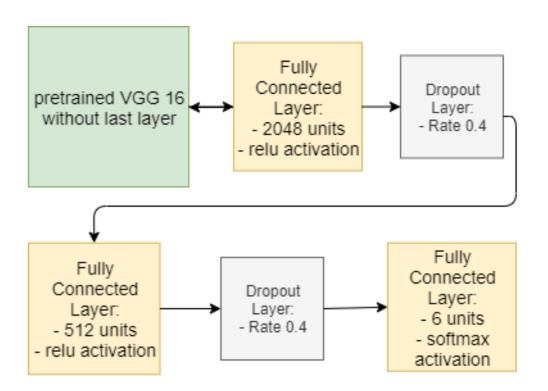
Methodology

- Transfer Learning: from pretrained VGG16-Model
- Image Augmentation: Random crops, blurring, left-right-flips
- Regularization: Dropouts



Methodology

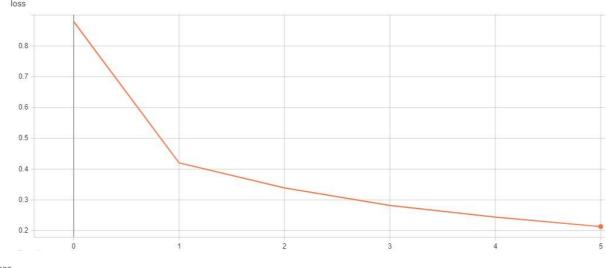
- Optimizer: Adam (learning rate: 1e-5)
- Batch_size: 32
- Unfreezed VGG16 net
- 6 epochs



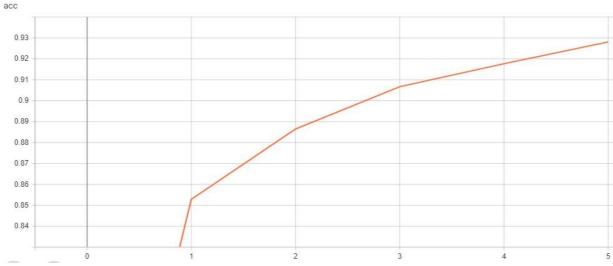


Results





accuracy



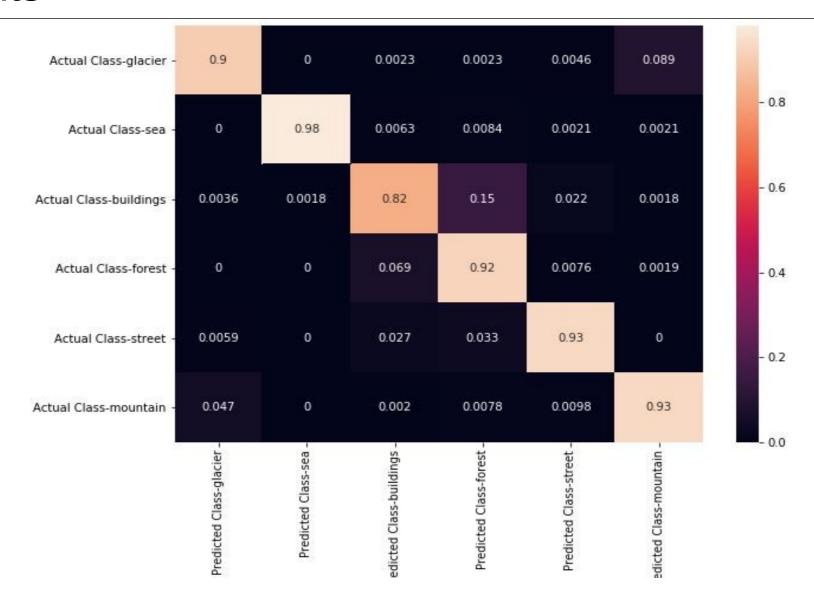
Accuracy on train set: 0.928

Accuracy on validation set: 0.923

Accuracy on test set: 0.914



Results





Possible challenges & further steps

Forest and building labels get mixed-up:

- → improve accuracy for these labels
- → increase augmentation for these classes

Keras build-in generator pipeline not suitable for running on google colab, because to many I/O-Operations

