## Deep Learning



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16

32

128

29

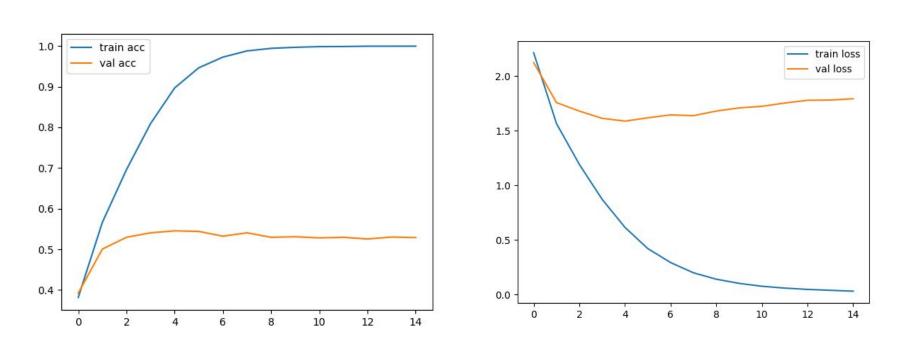
Pooling: Max

Drop out: No

BatchNormalization: 8, 32, 128

Accuracy: 55%

Max Accuracy: 58%



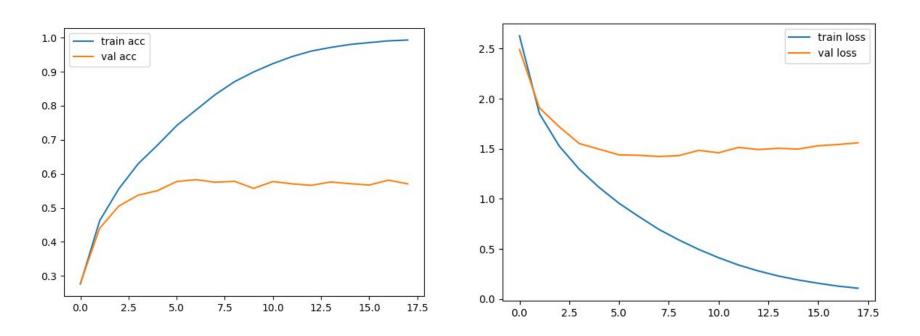
Pooling: Max

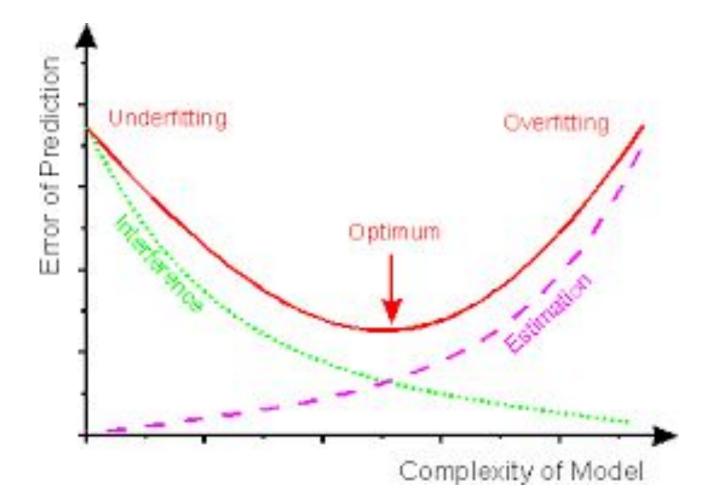
Drop out: No

BatchNormalization: 64, 128

Accuracy: 52%

Max Accuracy 54%





## Next Experiments

## Based on:

- Change number of filters at each layer. Based on 3conv + 2 denses
- Adding a drop out and Batch Normalization

64

128

256

29

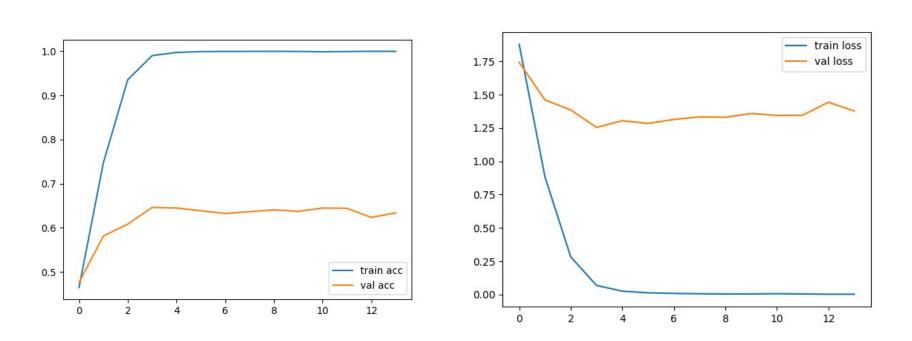
Pooling: Max

Drop out: No

BatchNormalization: 29,128,256

Accuracy: 63%

Max Accuracy: 64%



64

128

256

29

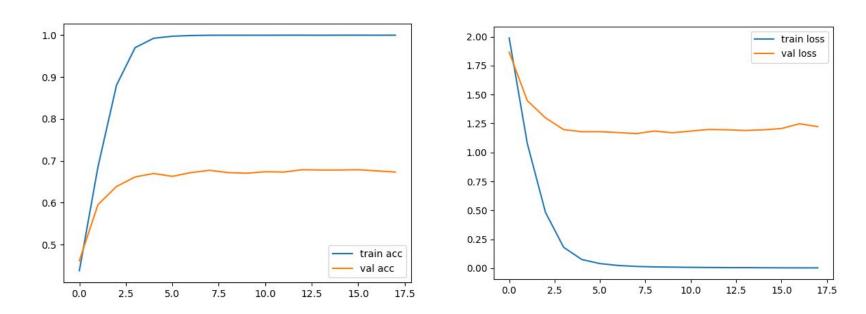
Pooling: Max

Drop out: 256 (0.2)

BatchNormalization: 29,128,256

Accuracy: 0.6731

Max Accuracy: 0.67



64

128

256

29

Pooling: Avg

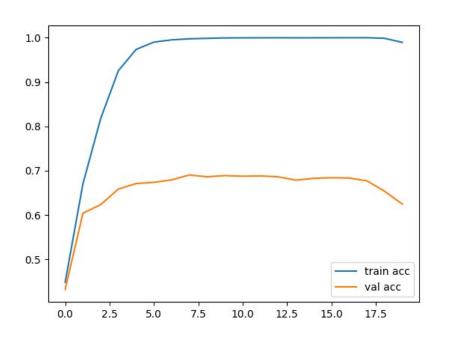
Drop out: 256 (0.2)

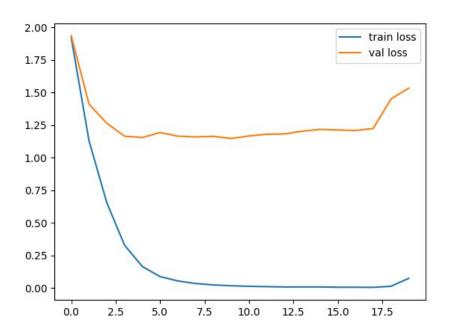
BatchNormalization: 29,128,256

Accuracy: 0.6248

Max Accuracy: 0.69

## With AVG Pooling





80

160

256

29

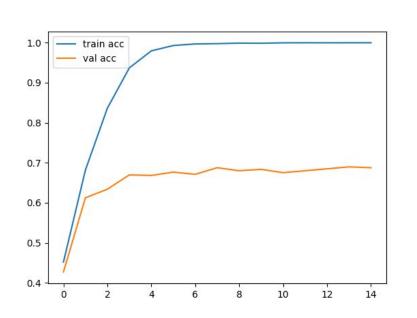
Pooling: Avg 2D

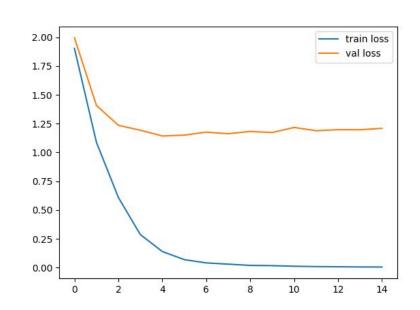
Drop out: 128 (0.2)

BatchNormalization: 40, 160

Accuracy: 0.6876

Max Accuracy: 0.69





80

160

256

29

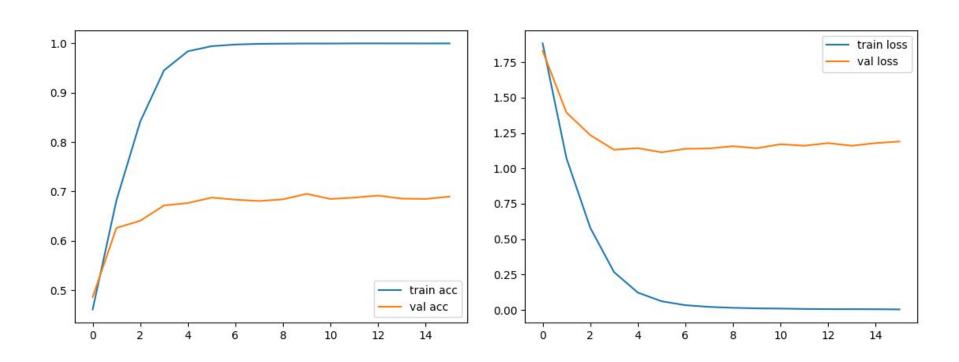
Pooling: Avg 2D

Drop out: 256 (0.2)

BatchNormalization: 40, 160, 256

Accuracy: 0.6897

Max Accuracy: 0.6952



160

256

128

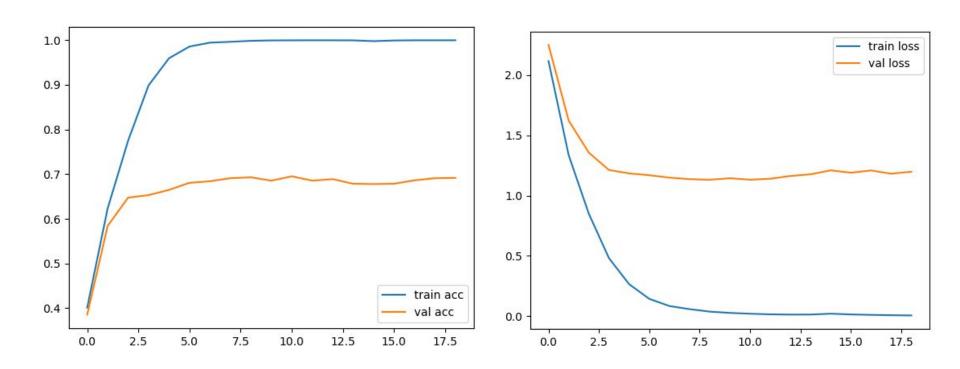
Pooling: Avg 2D

Drop out: 128(0.2)

BatchNormalization: 40, 160, 128

Accuracy: 0.6917

Max Accuracy: 0.6931



80

160

128

29

Pooling: Avg 2D

Drop out: 256 (0.2)

BatchNormalization: 40, 160, 256

Accuracy: 0.6821

Max Accuracy: 0.6945

