SESSION 9 - DATA AUGMENTATION

And why we should both be more with it!

Relationship between data and validation accuracy
Data augmentation
Fmega
Mixda
Elastic distortion
Cutout
Mixup
Recap
Randa
Latest hero - patch-gaussian
Strategy
Auo
Global average pooling
Grad-cam
Diagnosing dnn
Assignment

RELATIONSHIP BETWEEN DATA AND VALIDATION ACCURACY

Of course, the relationship between data and validation accuracy is not a simple one-to-one relationship. Rather, it is something more like a function. Changes to the data will affect the validation accuracy, but changes to the validation accuracy will also affect the data we choose to use to train the model. Thus, we have a feedback loop. Thus, we should be more with it!

Anyway, the rest of this "session" is a bunch of ideas for data augmentation that I have found over the years. Some of them are well-known, some of them are not. Some of them are "tricks" that I have found to be useful in my own work.

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Of the ones that are related to regularization:

- Fmega: https://www.fmega.ai/regularization-strategies
- Mixda: https://www.fmega.ai/mixda-mixup-data-augmentation-strategy
- Randa: https://www.fmega.ai/randa-strategy

DATA AUGMENTATION

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FMEGA

Cutout, Dropblock, Mixup, Mixup, Mixup