Batch Normalization

Related to input

transformation. So that loss

land scape looks smooth

ground we use moving Question angs instead of ensur ands for normalize

all activations

Std = VINS(A!-M2

らしつくなんのく each batch norm layer allows for

0 BN: = (OA; + B learnable parameters

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different men and variand @ Exponential Moving Average

Mnovi = (x) Mnovi + (1-x) M?

Why EMA?

9 deally

If I want averages of all activations I can keep track of entire data for every minibatch. But that's expensive. So a exponential moving average ? a good approximation

(EWA) Cmon: = Qrmon: + (1-0) 0 hyperparameter

" Momentum"

these parameters are not used during they are only used for inference

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