Batch, Epoch, iteration

- a Batch is a subset of training data Mat is processed to gether in a single step of model training, rather han processing the entire date set once. for Ex instal of using lok images at once a Mobil can do Batcher of 32 images at a time is evaluating 32 images and then suplating paramiters the Batch size is a impostal hyper parameter Part effects transity larger Batch size provide more stable premeter uplates but memory while smaller Bakkes are knore frequent and hops except local minimum - a iteration is a single pass through one Batch of Lata leading to an update of the parameters of a Model - an epoch is a complete pass through the entire traving date set, is each Batch has been spen and I rarmed from Ohce iteration iteration iteration * Models usally need meny with rack pass refining its training understooding. But too many Data Batch 1 Batch 2 Batch ---- Epoch ----> epochs = overfitting (memorizing)

Parampter

model leaves during transing from data, unlike hyperparameters that over set before transing begins, finding the parameters is the goal of training process, Ex in linear regretion slope and intercept (mands) over parameters the model adjust to fit the data, in NN parameters are all the inputs of Bias with and Brases the weight and Brases the weight and Brases the way adjusted durin

Frain ing to minimizer

pridiction event. which and

biases: slope and in her copt but

weights g= g(w.x+b)

NN hare hillons of them white Regrettion lines with Just a few parameters. Scanned with CamScanner