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 at once. for Ex instal of using lok images at once a Mobil can do Batchers of 32 images at a time is evaluating 32 images and then updating paramiters the Batch size is a important hyper parameter Det effects traning larger Batch size provide more stable preameter uplates but memory while smaller Bakkers are knore frequent and holes except local minimum

- a iteration is a single poss 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 data set, is each Batch has been seen and I rarred from Ohice

epochs = overfitting (memorizing) ---- Epoch ---->

Parampter

- also called Model parameter or weight is a value that the model leaves during traving from data, unlike hyperparametry that ave set before transg begins, finding the parameters is the goal of training process, Ex in linear regretion slope and intercept (mant b) are parameters the model adjust to fit the data, in NN parametrs are all the

wright and Brases Ad arr adjusted during Training to minimize pridiction error. weight and Biases = Slope and in her cept but

NN have Millons of them unlike Regretion lines with Just a tem parameters. Scanned with CamScanner