

# Hyperparameter tuning

### Tuning process

### Hyperparameters - Now to organize & set hyperparams

```
Po = learning rate

Po = Set these first

Po - Set these first

Po - Set these Second

Po -
```

## Try random values: Don't use a grid

#### Hyperparameter 2

 $(a_1,b_1)$   $(a_2,b_2)$  . . .  $(a_5,b_5)$ (a,b,) . . . . . (a,0,b,0)

old common practice ] works only when # hyper mall params are small params are small

Try out a, b pairs & see which values perform well together in the model

Hyperparameter 2

- Instead, Sample at Random

- Also give weight to the samples
of values which give a good
model perf. with the Imp params (d, #layers, # hidden wits)

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#### Coarse to fine

