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AE 06: Tune your workflows

Discussion questions

1. Identify if the following are tuning parameters

- _____ Learning rate in a boosted tree model
- _____ Coefficients in a linear regression model
- _____ Number of neighbors in a K-nearest neighbor model
- _____ Number of knots in a spline basis expansion
- _____ Weights in a neural network
- _____ The random seed used to initialize the model fitting

2. Identify for each scenario which type of grid is more appropriate

Scenario	Potential values	Regular	Space-filling
Number of tuning parameters	Low/high		
Prior knowledge of tuning parameters	Unknown/known ranges		
Computational budget	Limited/ample		
Interpretability needs	Low/high		