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Algorithm 1: Bayesian optimization
1: for n = 1, 2, \dots do
      select new \mathbf{x}_{n+1} by optimizing acquisition function \alpha
      \mathbf{x}_{n+1} = \arg\max \alpha(\mathbf{x}; \mathcal{D}_n)
      query objective function to obtain y_{n+1}
3:
      augment data \mathcal{D}_{n+1} = \{\mathcal{D}_n, (\mathbf{x}_{n+1}, \mathbf{y}_{n+1})\}
```

4:

5:

6: end for

update statistical model