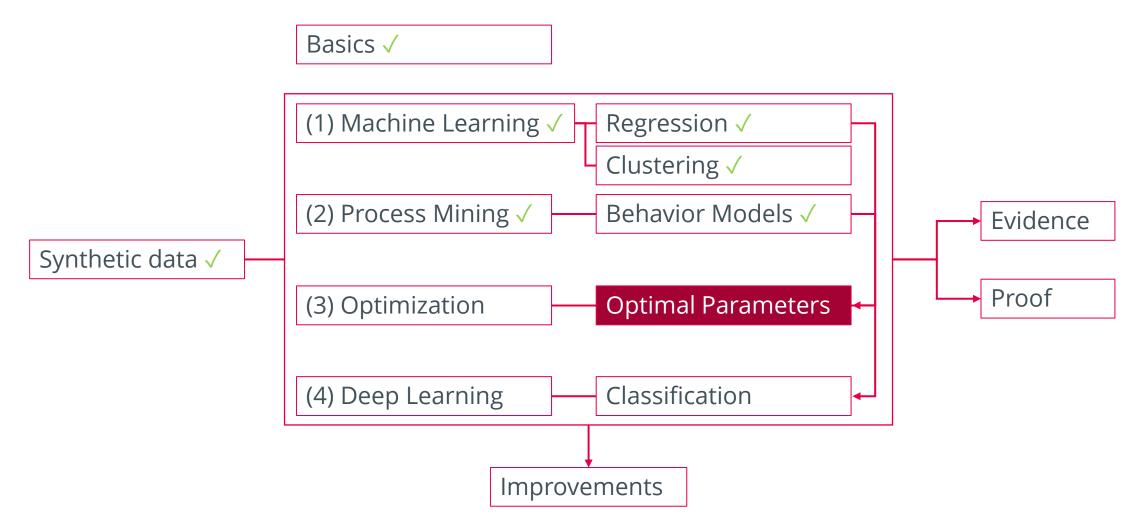


Welcome

to Advanced Topics in Algorithms

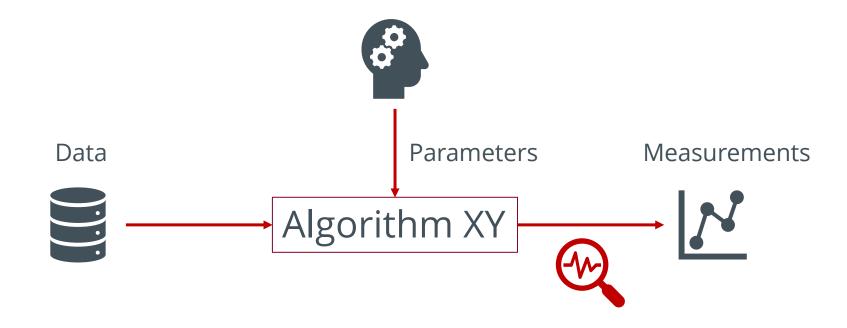


Summary: Advanced Topics in Algorithms



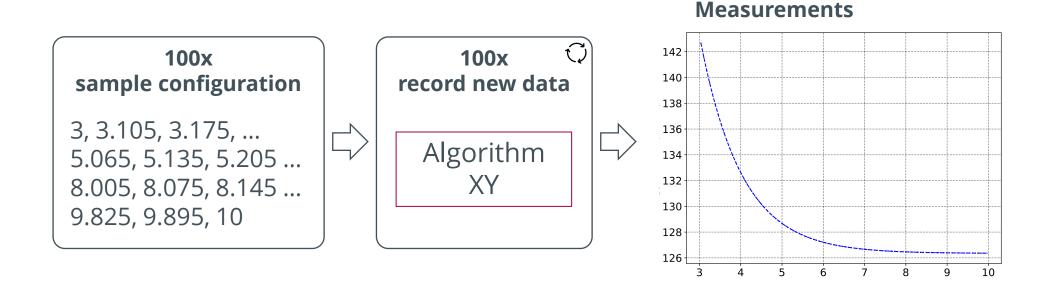
TH **T**

Find Optimal Parameters of an Algorithm



Find Optimal Parameters of an Algorithm



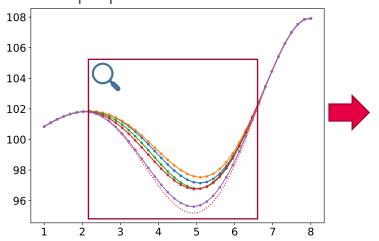


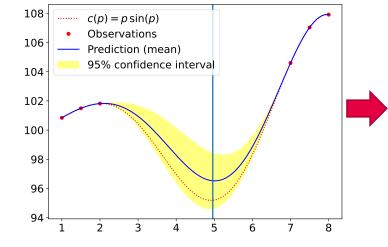
- Exhaustive evaluation of all possible configurations is not possible
- Each evaluation takes time and is therefore expensive

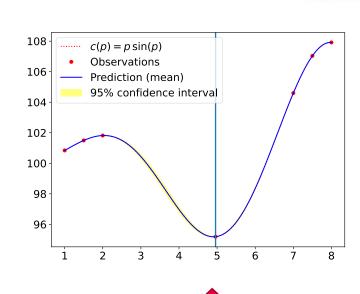
TH VOWL

Bayesian Optimization

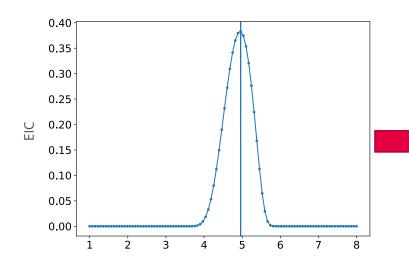
Sample possible values

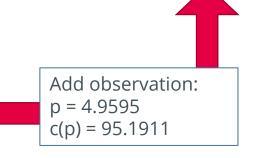






- Use Gaussian Process Regression
- Calculate values using the Expected Improvement Criterion (EIC)
- Choose parameter configuration with the highest EIC







Thank you!