Machine Learning Model Life Cycle

Business Question

- What can we do to make it cheaper and faster?
- What kind of savings?
- How can we increase CSAT?

Identify the Problem

- What kind of machine learning problem are we predicting?
- What are the values or categories?
- What are the grouping or rankings?

Define Success Metrics

- Offline: Accuracy, MAE, nDCG
- Online: STR, Revenue/User,
 Bounce Rate

Cross-Validation & Parameter Tuning

- Adjust model parameters
- More Feature Engineering

Choose the Learning Algorithm

- Logistic Regression
- SVM

Data & Feature Engineering

- Data we have
- · Data we don't have

PROCESS & CLEAN

More Evaluation

- Test on blind hold out dataset
- Test in pre-production

Online Experimentation

A/B or Multi-variant Testing
 Online Metrics look good?
 Increase traffic?

Release To Production

Get more data

