**Algorithm Foundations**

Lesson 1: How to Talk About Data in Machine Learning

Lesson 2: Principle That Underpins All Algorithms

Lesson 3: Parametric and Nonparametric Algorithms

Lesson 4: Bias, Variance and the Trade-off

**Linear Algorithms**

Lesson 5: Linear Regression  
Lesson 6: Logistic Regression  
Lesson 7: Linear Discriminant Analysis

**Nonlinear Algorithms**

Lesson 8: Classification and Regression Trees

Lesson 9: Naive Bayes

Lesson 10: k-Nearest Neighbors

Lesson 11: Learning Vector Quantization

Lesson 12: Support Vector Machines

**Ensemble Algorithms**

Lesson 13: Bagging and Random Forest

Lesson 14: Boosting and AdaBoost