Course Outline

The course consists of 10 units. In each of the course's first 10 weeks we will release one unit, and you will have six weeks to complete it.

- Week 1 Introduction
- Week 2 Sets
- Week 3 Counting and Combinatorics
- Week 4 Probability and Conditioning
- Week 5 Random Variables, Expectation, and Variance
- Week 6 Discrete and Continuous Distribution Families
- Week 7 Inequalities and Concentration Theorems
- Week 8 Sampling, Confidence Intervals, and Hypothesis Testing
- Week 9 Regression and Principal Component Analysis
- Week 10 Entropy and Compression