

Stats & Machine Learning Review

Important Terms:

1. Bias & Variance
2. Overfitting

Intro to Stats:

1. Confidence Intervals
2. P-value
3. Hypothesis testing
4. Distributions
5. Bootstrapping

Probabilities:

1. Statistics of Random Variables
2. Quantile Functions
3. Bernoulli Random Variable
4. Independence and Conditional Expectation
5. Binomial Random Variable
6. Geometric Distribution
7. Bayes' Theorem
8. Exponential Distribution
9. Normal Distribution
10. Central Limit Distribution
11. Poisson Distribution
12. Relationship between Exponential and Poisson

Machine Learning:

1. Supervised Learning & Unsupervised Learning
2. Classification & Regression
3. Precision-recall Tradeoff
4. Non-parametric & Parametric Analysis
5. Asymptotic approximation property (???)
6. Linear & Logistic Regression