

June MATH Plan

- The Start
- The Goal
- Do 1st
- Do 2nd
- Do 3rd

The Goal:

Mathematical Foundation
for ML

Stats

Classification
Regression
Supervised Learn.
(Book: The Elements of Statistical Learning)

Linear Algebra

- PCA
- Factorization/Decomp
- Tensors

Calculus

- Review Deriv & Integrals
- Partial Derivatives
- Multivariate Calculus
- Optimization
- Matrix Calc

Strang's MIT openCourseware

FastAI computational linear alg.

Coursera Mathematics for ML

MIT OpenCourseware Calc

Apostol Calc I & II

Algorithms
University Yr 2.
LeetCode

Statistics
Think Stats

Linear Algebra
3B1B

Linear Algebra
University Yr 1 & 2.

Calculus
University Yr 1.

Calculus
3B1B

Probability
University Yr 1.

ML
Kaggle: Intro
to Intermediate ML
Kaggle: Deep
Learning

What I know already:

Goal: to acquire the math foundation
to properly engage in ML day-to-day,
and to set the stage for advanced
maths for research/publishments.