CS 357 - 01 Introduction

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Modules in this note set:

1. Introduction

2. Python

3. Error & Big-O

4. Floating Point

5. Rounding & Cancellation

6. Taylor Series

7. Randomness & Monte Carlo Methods

8. Vectors, Matrices & Norms

9. Linear System of Equations

10. Sparse Matrices

11. Conditioning

12. Eigenvalues

13. Markov Chains

14. Finite Difference Methods

15. Nonlinear System of Equations

16. Optimization

17. Linear Least Squares

18. Singular Value Decomposition

19. Principal Component Analysis