

Summer of Science 2024:Statistics

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Objectives and Flow of Learning:

- Introduction to Probability : Week 1
- Bayes Theorem and Conditional Probability : Week 1
- Random Variables and expectation : Week 2
- Special Random Variables-Discrete : Week 3
- Special Random Variables- Continuous : Week 4

Mid Term Report Submission

- Sampling Statistics and Central Limit Theorem : Week 5, 6
- Parameter Estimation : Week 7
- Hypothesis Testing : Week 7, 8
- Introduction to Regression- Simple, Multiple, Polynomial and Logistic : Week 9

End Term Report Submission

References:

- Introduction to Probability and Statistics for Engineers by Sheldon Ross
- <https://www.probabilitycourse.com/>
- MITOCW(In it course with same name)
- Introductory Probability and Statistical Applications by Meyer Bertsekas, Dimitri, and John Tsitsiklis.