Looking Ahead

Claude Monet. *The Cliff, Étretat, Sunset*

SML201: Introduction to Data Science, Spring 2019
Michael Guerzhoy
Data Science at Princeton

• CSML certificate
• SML310: Research Projects in Data Science
• Multiple classes in machine learning
  • ORF245 useful for many
  • A class to be offered next year to give the necessary math background (calculus/probability/linear algebra) to people who want to do more ML
• POL345/346
  • More data analysis
Machine Learning

• Lots of MOOCs
  • Google “Andrew Ng machine learning mooc” for good practical introductions to machine learning

• Several excellent introductory and advanced theoretical courses (more mathematical)
  • Pedro Domingos’s CSE 546 (UW + youtube)
  • Andrej Karpathy’s cs231n (Stanford + youtube)
Statistics

• Practical data analysis:
  • Ramsey and Schaffer, *The Statistical Sleuth*
  • Andrew Gelman and Jennifer Hill, *Data Analysis using Regression and Multilevel Hierarchical models*

• More mathematical/advanced
  • David Williams, *Weighing the Odds*
  • Cosma Shalizi, *Advanced Data Analysis from an Elementary Point of View*