



A Tutorial on Data Science

Welcome to an one-day Course

Instructor: Dr. Cathy O'Neil

In this one day course we will learn about the basic technical skills that go into the data science process, beginning with scraping, collecting, and cleaning data, moving on to exploratory data analysis, then the actual modeling process, with multiple examples of machine learning algorithms, and finally an explanation of how to document and revise algorithms that are in use.

Cathy O'Neil earned a Ph.D. in mathematics from Harvard, was a postdoctoral researcher at the MIT mathematics department and a professor at Barnard College where she published a number of research papers in arithmetic algebraic geometry. She then switched over to the private sector, working as a quantitative analyst for the hedge fund D.E. Shaw in the middle of the credit crisis and then for RiskMetrics, a risk software company that assesses risk for the holdings of hedge funds and banks. She left finance in 2011 and started working as a data scientist in New York, building models that predicted people's purchases and clicks. She wrote the book **Doing Data Science** and started the Lede Program in Data Journalism at Columbia. She is a weekly guest on the Slate Money podcast and is currently writing a book about the dark side of big data.

Prior knowledge necessary

Some programming in R or python, some calculus and linear algebra, and basic knowledge in statistics (undergraduate level).

■ REGISTRATION FORM: WWW.SCB.SE/KURSER

Do you need further information? Please contact Annika Fröberg at annika.froberg@scb.se



November 5 2015
09.30–16.30



Hotel Ariadne,
Södra Kajen 37,
Stockholm



Fee:
1000 SEK, incl.
Coffee breaks,
lunch and course
materials.
Register not later
than October 26.
Please note that
the registration is
binding.

