Other Completed Courses

Machine Learning	Stanford University	Grade Achieved: 84.7% View Statement of Accomplishment Add to Profile
Introduction to Data Science	University of Washington	Grade Achieved: 97.3% *with Distinction* View Statement of Accomplishment Add to Profile
The Data Scientist's Toolbox	Johns Hopkins University	Grade Achieved: 101.0% *with Distinction* View Statement of Accomplishment Add to Profile
R Programming	Johns Hopkins University	Grade Achieved: 100.0% *with Distinction* View Statement of Accomplishment Add to Profile
Getting and Cleaning Data	Johns Hopkins University	Grade Achieved: 95.0% *with Distinction* View Statement of Accomplishment Add to Profile
Exploratory Data Analysis	Johns Hopkins University	Grade Achieved: 100.0% *with Distinction* View Statement of Accomplishment Add to Profile
Reproducible Research	Johns Hopkins University	Grade Achieved: 98.8% *with Distinction* View Statement of Accomplishment Add to Profile
Statistical Inference	Johns Hopkins University	Grade Achieved: 100.0% *with Distinction* View Statement of Accomplishment Add to Profile
Regression Models	Johns Hopkins University	Grade Achieved: 100.0% *with Distinction* View Statement of Accomplishment Add to Profile
Practical Machine Learning	Johns Hopkins University	Grade Achieved: 100.0% *with Distinction* View Statement of Accomplishment Add to Profile
Developing Data Products	Johns Hopkins University	Grade Achieved: 100.0% *with Distinction* View Statement of Accomplishment Add to Profile

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Introduction to Data Science

This course covered a broad set of topics critical to practical data science: relational databases, MapReduce, NoSQL, selected topics in statistical modeling, selected topics in machine learning, and information visualization, and a variety of algorithmic topics.

BILL HOWE, PH.D
ASSOCIATE DIRECTOR
ESCIENCE INSTITUTE
AFFILIATE ASSISTANT PROFESSOR
COMPUTER SCIENCE & ENGINEERING
UNIVERSITY OF WASHINGTON

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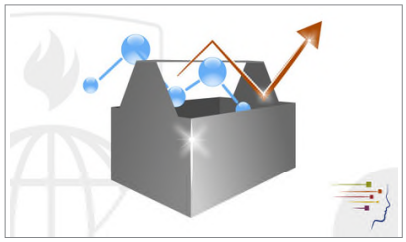

The Data Scientist's Toolbox

Overview of the data, questions, & tools that data analysts & scientists work with. It is a conceptual introduction to the ideas behind turning data into knowledge as well as a practical introduction to tools like version control, markdown, git, GitHub, R, and RStudio.

JEFFREY LEEK, PHD
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BRIAN CAFFO, PHD, MS
DEPARTMENT OF BIOSTATISTICS, JOHNS HOPKINS
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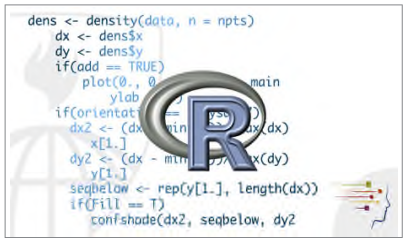

R Programming

This course covers how to use & program in R for effective data analysis. It covers practical issues in statistical computing: programming in R, reading data into R, accessing R packages, writing R functions, debugging, profiling R code, & organizing and commenting R code.

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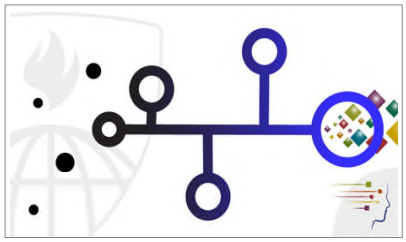

Getting and Cleaning Data

This course covers obtaining data from the web, APIs, databases, and colleagues in various formats, as well as the basics of cleaning and "tidying" data. It also covers the components of a complete data set: raw data, processing instructions, codebooks, & processed data.

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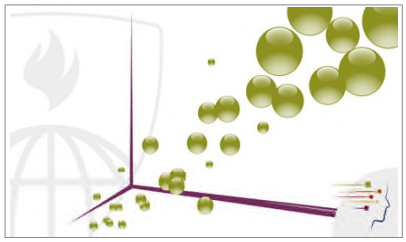

Exploratory Data Analysis

Covers exploratory data summarization techniques that are applied before modeling to inform development of complex models. Topics include plotting in R, principles of constructing graphics, and common multivariate techniques used for high-dimensional data visualization.

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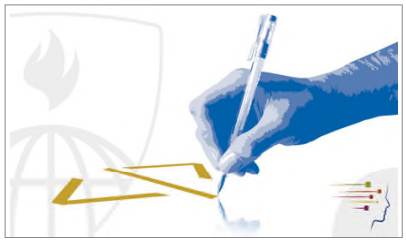

Reproducible Research

This course covers how to write a document using R markdown, integrate live R code into a literate statistical program, compile R markdown documents using knitr and related tools, and organize a data analysis so that it is reproducible and accessible to others.

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Statistical Inference

Students receive a broad overview of the goals, assumptions, and modes of statistical inference. Successful students can perform inferential tasks in highly targeted settings and are able to use the skills developed for more complex inferential challenges.

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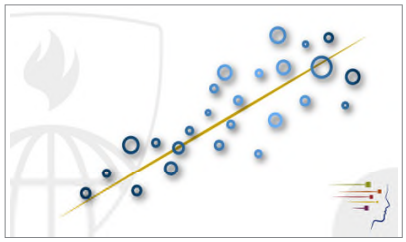

Regression Models

Students learn how to fit regression models, interpret coefficients, and investigate residuals and variability. Students also learn to use dummy variables, multivariable adjustment, and extensions to generalized linear models, especially Poisson and logistic regression.

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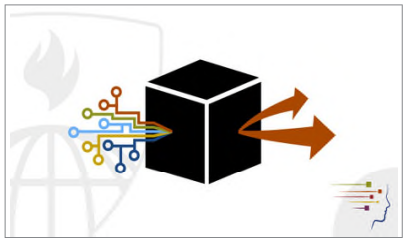

Practical Machine Learning

Upon completion of this course students understand the components of a machine learning algorithm and how to apply multiple basic machine learning tools. Students also learn to apply these tools to build and evaluate predictors on real data.

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Developing Data Products

This course covers the basics of creating data products using Shiny, R packages, and interactive graphics. The course focuses on the statistical fundamentals of creating a data product that can be used to tell a story about data to a mass audience.

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ROGER D. PENG, PHD
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BLOOMBERG SCHOOL OF PUBLIC HEALTH

JANUARY 18, 2014

Online Course
Statement of Accomplishment

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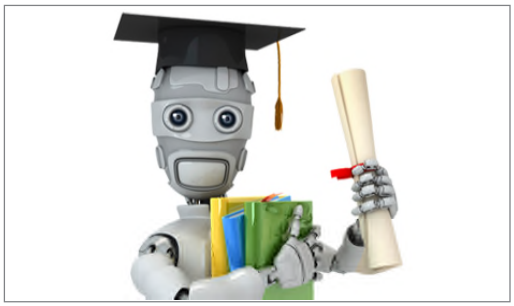

Machine Learning

Congratulations! You have successfully completed the online Machine Learning course (ml-class.org). To successfully complete the course, students were required to watch lectures, review questions and complete programming assignments.

ASSOCIATE PROFESSOR ANDREW NG
COMPUTER SCIENCE DEPARTMENT
STANFORD UNIVERSITY