*"Data Scientist: the Sexiest Job of the 21st Century"*
by Harvard Business Review

# 12-Week, Immersive Data Science Bootcamp

Learn R, Python, Hadoop and Spark in just 12 weeks,
with our full support as we help you lift your career

- *Top-ranked, most comprehensive curriculum*
- *Real-world skills & 5 projects portfolio*
- *Receive personal and team in your job search*

## Next cohort: Jan 9 - Mar 31, 2017 // Apr 3 - Jun 23, 2017
## New York City // Online Bootcamp
Apply Online: nycdatascience.com/data-science-bootcamp/

## Overview
In this program students will learn beginner and intermediate levels of Data Science with R, Python & Hadoop as well as the most popular and useful packages like dplyr, scikit-learn, and more. Students will work on five projects throughout the bootcamp. Along the way, students will have assistance in preparing for the job search through resume review and interview preparation.

## Pre-Work
Tailored study plans are developed for each student as part of the preparation for joining the bootcamp. Students are encouraged to take our weekend courses in R and Python for free.

## Week 1 | Data Science Toolkit
Learn to work from the command line - a must have skill for all data scientists. Work with basic Linux commands, text editing, and Git for version control. MySQL is taught with extensive practice on data manipulation.

## Week 1 - 2 | Data Analytics & Visualization with R
Dive deep into R programming language from basic syntax to advanced packages and data visualization (e.g. reshape2, dplyr, string manipulation, ggplot2, R Shiny). Carry out a mini data analysis & visualization project. Create a data-centric application with interactive visualizations.

## Week 3 - 4 | Data Analytics & Visualization with Python
Basic Python programming, followed by versatile packages such as Numpy, Scipy, Matplotlib, Pandas, and Beautifulsoup. Exposure to NoSQL and MongoDB. Complete a Python web scraping project.

## Week 5 - 6 | Machine Learning with R - Part I
Descriptive statistics, hypothesis testing, missingness, imputation & KNN, simple linear regression, multiple linear regression, generalized linear models, principle components analysis, Ridge/Lasso regression.

## Week 7 - 8 | Machine Learning with R - Part II
Trees, random forests, bagging, boosting, support vector machines, neural networks, natural language processing, time series analysis, unsupervised learning. Complete a Kaggle competition.

## Week 9 | Machine Learning with Python
Deepen machine learning skills with scikit learn. Focus on data cleaning, feature extraction, modeling and model selection using regression, SVM, PCA, tree models, clustering and more.

## Week 10 | High Performance Computing, Hadoop, & Spark
Learn the concepts of high performance computing with parallel computing skills in Python and R. Introduction to MapReduce, Hadoop, Hive, Spark, and Spark MLlib.

## Week 11 - 12 | Capstone Project & Job Placement Support
Complete a capstone project. Resume review, tips of interview skills, and opportunities to interview with potential employers.

Project 1: Exploratory Data Visualization with R
Project 2: R Shiny Interactive Application
Project 3: Python Web Scraping
Project 4: Machine Learning
Project 5: Capstone Project

**nycdatascience** **@NYCDataSci**
Website: nycdatascience.com
Address: 500 8th Ave., Suite 905, New York, NY 10018

**Apply Online:** nycdatascience.com/data-science-bootcamp/

**Kelly Mejia Breton**
Associate Director, Marketing Science
M.A., Applied Mathematics
CUNY - Hunter College
**Hired by MindShare**

MINDSHARE

**Wendy Yu**
Business Intelligence Modeler
Master of Biotechnology
University of Pennsylvania
**Hired by Ascap**

♪ascap

*"NYCDSA provided the platform to pursue my dream career. The curriculum is well thought out, with detailed notes, hands-on projects, and great hiring partners. NYCDSA gave me the tools to become a data scientist, and the exposure to land the job. Truly one of the best investments I have ever made!"*

*"The instructors we have are AMAZING!!! They are super knowledgeable and also very passionate about data science. TAs are the most hard working group of people I know! They really try their best to help you. "*

## 160+
Bootcamp grads
since Feb 2015

## $116k
Average Salaries
by Glassdoor

## 93%
Get a job within
6 months

## #1 ★★★★★
Among Highest ranked
Data Science programs
Based on CourseReport.com and SwitchUp

**Rob Castellano**
Data Scientist
Ph.D., Mathematics
Columbia University
**Hired by JP Morgan**

JPMORGAN CHASE & CO.

**Denis Nguyen**
Data Scientist
B.E., Biomedical Engineering
Stony Brook University
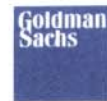**Hired by Ameritas**

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**Samara Bliss**
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