

ACSIP- Association of Chinese Senior IT Professionals

Big Data Event

Brought you By

ACSIP & IBM Big Data University

2015-12-06



Join ACSIP WeChat Group by
scanning QR Code with a note
"ACSIP Group" for invitation

ACSIP
资深人协会

A Platform
For Senior IT Professionals

ACSIP Board Of Directors & IBM Speakers



Join ACSIP WeChat Group by scanning QR Code with a note "ACSIP Group" for invitation



Big Data University

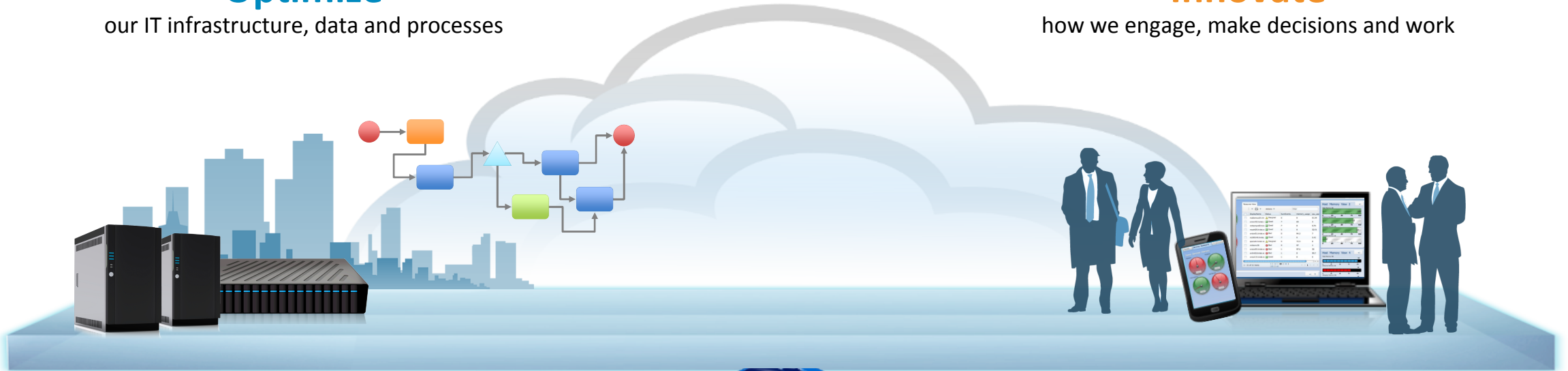
Smarter enterprises are able to balance optimization with innovation

Optimize

our IT infrastructure, data and processes

Innovate

how we engage, make decisions and work



Technology Leaders

Chief Information Officers

Technology Architects

Dev & Ops Leaders

Drives Need

Drives Investment

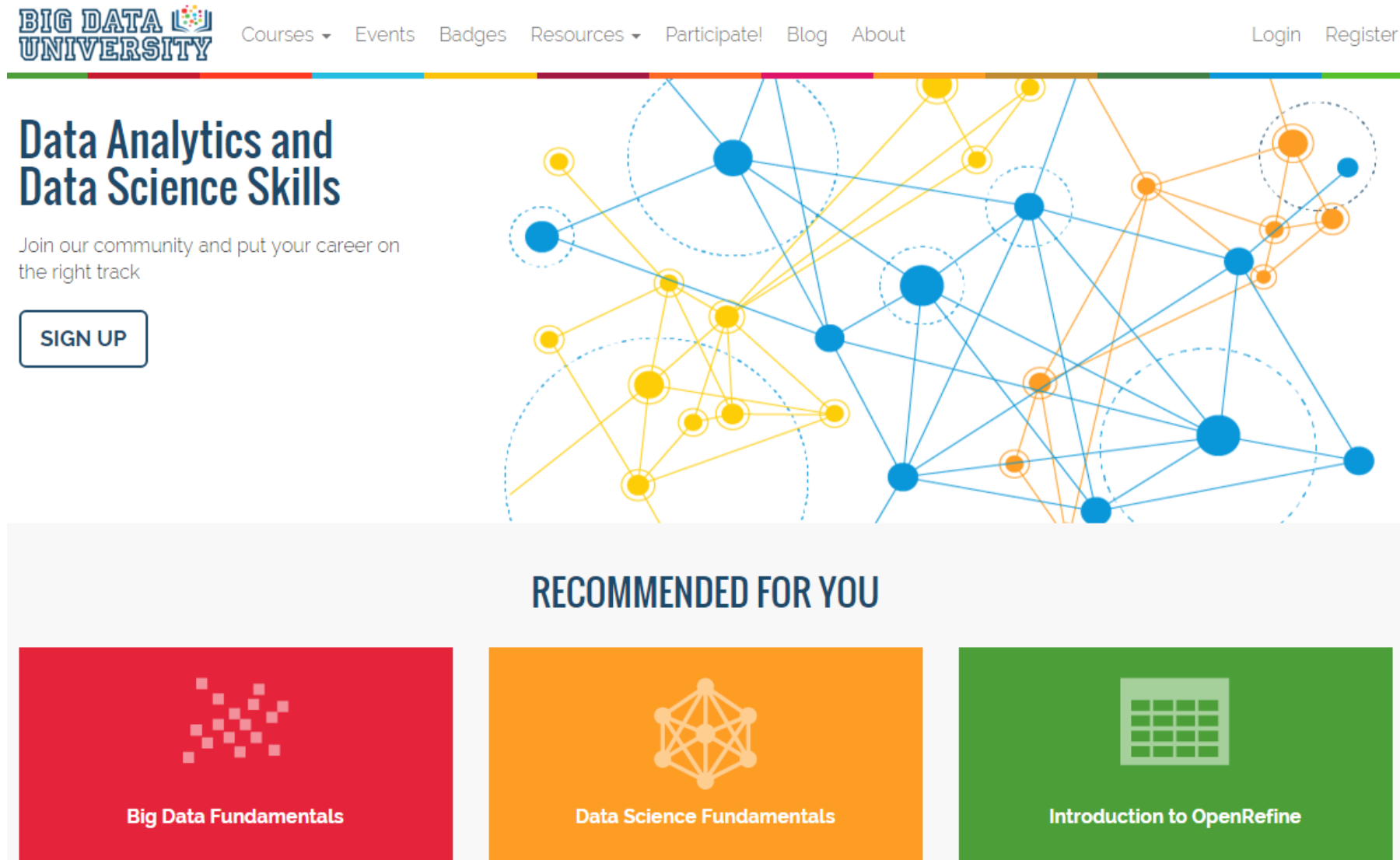
Line of Business Leaders

Marketing Leaders

Sales Leaders

Finance & HR Leaders

What is Big Data University (BDU)?



The screenshot shows the homepage of Big Data University. At the top is a navigation bar with the logo on the left and links for Courses, Events, Badges, Resources, Participate!, Blog, and About in the center. On the right are links for Login and Register. Below the navigation bar is a large graphic of a network diagram with blue and yellow nodes connected by lines. To the left of this graphic, the text 'Data Analytics and Data Science Skills' is displayed in a large, bold font. Below this text is a smaller line: 'Join our community and put your career on the right track', followed by a 'SIGN UP' button. Below the network graphic, a section titled 'RECOMMENDED FOR YOU' contains three colored boxes: a red box for 'Big Data Fundamentals' with a pixelated 'X' icon, an orange box for 'Data Science Fundamentals' with a neural network icon, and a green box for 'Introduction to OpenRefine' with a grid icon.

BIG DATA UNIVERSITY

Courses ▾ Events Badges Resources ▾ Participate! Blog About


Login Register

Data Analytics and Data Science Skills


Join our community and put your career on the right track

SIGN UP


RECOMMENDED FOR YOU



Big Data Fundamentals



Data Science Fundamentals



Introduction to OpenRefine

bigdatauniversity.co

What is big data university (bdu)?

- A **community** initiative led by IBM
- **@yourpace, @yourplace** online courses about data
- Developed by **industry experts**
- **Free** courses by the community with hands-on labs
- Certificate of completion and **badges**
- Looking for **contributors!**

BigDataUniversity.com

Quick tour of Big data university

BigDataUniversity.com

In Portuguese:

BigDataUniversity.com.br

In Chinese:

BigDataUniversity.com.cn

Analytics for all: In support of the Un goals



globalgoals.org

Canadian Tour and expanding!



Please tweet to have more events organized!

- Sample tweet is below:

Free #analytics4good courses @bigdatau
#globalgoals #datascience

Typical BDU course structure

- 5 – 5 – 5 rule of thumb:
 - 5 lessons
 - 5 videos per lesson
 - 5 minutes per video
- Each lesson has a hands-on lab (VMWare, Docker, Cloud)
- Each course has a multiple-choice test of 20 questions
- Short courses
 - Typical course duration: 4 hours

Big Data, Analytics, Data Science: Demand outpaces supply

Harvard
Business
Review

Data Scientist: The Sexiest Job of the 21st Century

by Thomas H. Davenport

LACK OF IT RESOURCES HINDERS DATA ANALYTICS

Biggest In-Demand Analytics Skills

- Statistics, math and quantitative capabilities48%
- Analytics tool training..... 40%
- Critical thinking.....28%

CIO INSIGHT

Be less than the talent available 5%

Be met by the available talent 31%



31% Significantly outpace the supply of talent

32% Somewhat outpace the supply of talent

Only 12% see today's BI professional as the best source for new data scientists



MICHIGAN NEWS
UNIVERSITY OF MICHIGAN

ALL STORIES

MULTIMEDIA

FOR JOURNALISTS

U-Michigan launches \$100 million Data Science Initiative

Sept 08, 2012

Scientists

TS WILL:



THE TEN BEST TECH JOBS IN AMERICA

Data Scientist

OVERALL JOB SCORE:
4.4

NUMBER OF JOB OPENINGS:
3,449

AVERAGE BASE SALARY:
\$104,476

CAREER OPPORTUNITIES RATING:
3.8

Baseline

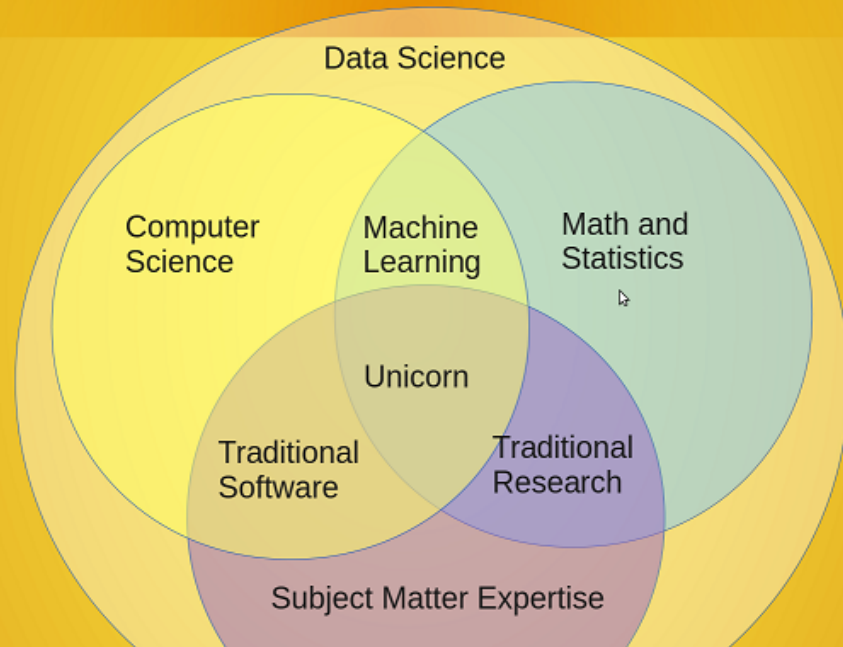
Meisler, 734-764-7414, dmeisler@umich.edu

Job Trends from Indeed.com
"data scientist"

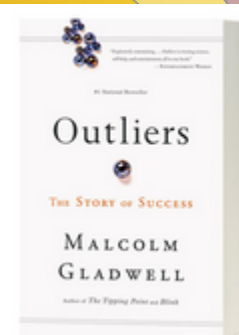


Skills required by a Data Scientist

Data Science Venn Diagram v2.0



Copyright © 2014 by Steven G. Permission is granted to use, distribute, or reproduce this image, provided that this copyright notice is included in any copy.



The 10,000 Hour Rule

MODERN DATA SCIENTIST

Data Scientist, the sexiest job of 21st century requires a mixture of multidisciplinary skills ranging from an intersection of mathematics, statistics, computer science, communication and business. Finding a data scientist is hard. Finding people who understand who a data scientist is, is equally hard. So here is a little cheat sheet on who the modern data scientist really is.

MATH & STATISTICS

- ☆ Machine learning
- ☆ Statistical modeling
- ☆ Experiment design
- ☆ Bayesian inference
- ☆ Supervised learning: decision trees, random forests, logistic regression
- ☆ Unsupervised learning: clustering, dimensionality reduction
- ☆ Optimization: gradient descent and variants

PROGRAMMING & DATABASE

- ☆ Computer science fundamentals
- ☆ Scripting language e.g. Python
- ☆ Statistical computing package e.g. R
- ☆ Databases SQL and NoSQL
- ☆ Relational algebra
- ☆ Parallel databases and parallel query processing
- ☆ MapReduce concepts
- ☆ Hadoop and Hive/Pig
- ☆ Custom reducers
- ☆ Experience with xaaS like AWS

DOMAIN KNOWLEDGE & SOFT SKILLS

- ☆ Passionate about the business
- ☆ Curious about data
- ☆ Influence without authority
- ☆ Hacker mindset
- ☆ Problem solver
- ☆ Strategic, proactive, creative, innovative and collaborative

COMMUNICATION & VISUALIZATION

- ☆ Able to engage with senior management
- ☆ Story telling skills
- ☆ Translate data-driven insights into decisions and actions
- ☆ Visual art design
- ☆ R packages like ggplot or lattice
- ☆ Knowledge of any of visualization tools e.g. Flare, D3.js, Tableau



MarketingDistillery.com is a group of practitioners in the area of e-commerce marketing. Our fields of expertise include: marketing strategy and optimization; customer tracking and on-site analytics; predictive analytics and econometrics; data warehousing and big data systems; marketing channel insights in Paid Search, SEO, Social, CRM and brand.

Marketing
DISTILLERY

ACSIP- Association of Chinese Senior IT Professionals

Big Data Event

Brought you By

ACSIP & IBM Big Data University

2015-12-06



Join ACSIP WeChat Group by
scanning QR Code with a note
"ACSIP Group" for invitation

ACSIP
资深人协会

A Platform
For Senior IT Professionals