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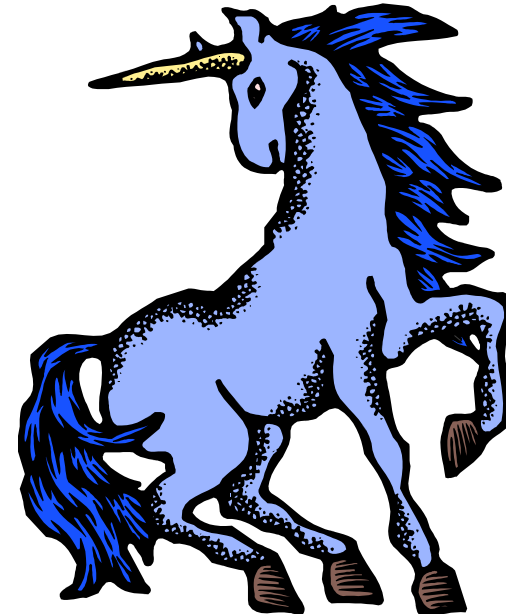
Data Scientists are Very Employable



Business Analytics Transformation
Making IBM a Smarter Enterprise

We've begun to get consistency in what a Data Scientist is:

- Tom Davenport's October 2012 article ["Data Scientist: The Sexiest Job of the 21st Century"](#)
- Anand Rao's March 2014 article, ["The 5 Dimensions of the So-Called Data Scientist"](#)
- Vincent Granville's July, 2014 article, ["16 analytic disciplines compared to data science"](#)



What skills does a Data Scientist need?

Analytics Skills

- **Broad skill in analytics disciplines with one or two deep – T-shaped**
Ability to determine the appropriate analytics technique for addressing classes of business problems.
- **Experience using analytical tools to solve business problems**
Ability to determine the appropriate software packages to run; experience with key tools.
- **Experience in marshalling and analyzing large amounts of data**
An understanding of key internal and external data sources and how they are gathered, stored and retrieved; experience manipulating large volumes of data.

Business Analytics Skills

- **Business Acumen**
Ability to work with domain experts; can quickly grasp the underlying business process and gain an understanding of how it works; experience in business transformation.
- **Communication**
Effective executive communication: proficiency delivering actionable quantitative insights to a non-technical audience.
- **Deployment driving value**
Ability to deploy analytics into the business to create value.

Sample Analytics Programs

Business Analytics, Predictive Analytics	Information Architecture	Deep Computing Analytics
Business School (<i>DePaul, Fordham, Ghent, Yale</i>)	Computer Science or IT Mgmt (<i>Boston U, U Lyon, Peking U</i>)	Engineering, Math or Computer Science (<i>NCSU</i>)
Knowledge Discovery Decisions in Market Mgmt Customer Relationship Mgmt Analytic Tools for Business Data Mining & Analysis Business Intelligence Image Analysis & Visualization Precision Marketing Predictive Analytics Internet and Interactive Mktg Data Querying & Reporting Advanced Data Analytics Inventory Management Supply Chain Optimization Channel Performance Policy, Security, Privacy	Information Structures Quantitative Methods Database Design Information Systems Analysis & Design IT Strategy & Management Data governance & Security IT Security Policies and Procedures Data Mining for BI Design & Implement Data Warehouse Analysis & Information Mgmt Enterprise Architecture Enterprise Information Design Analytics and Info Mgmt Database Administration	Analytic Tools & Techniques Data Querying & Reporting Data Cleaning Statistical Programming Data Mining Geospatial Data Analytics Data Visualization Multiple Linear Regression Logistics Regression Forecasting Linear Programming Advanced Modeling Statistical Methods for Process Improvement Data Privacy & Security Advanced Data & Text Mining Financial Analytics Risk Analytics