MODERN DATA SCIENTIST

Data Scientist. the sexiest job of the 21th 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

DOMAIN KNOWLEDGE & SOFT SKILLS

- [ ] Passionate about the business
- [ ] Curious about data
- [ ] Influence without authority
- [ ] Hacker mindset
- [ ] Problem solver

- [ ] Strategic, proactive. Creative. innovative and collaborative

PROGRAMMING & DATABASE

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

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, D3js, Tableau

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