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
DOMAIN KNOWLEDGE & SOFT SKILLS Passionate about the business
Passionate about the business
Passionate about the business Curious about data

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 Make a	nd Share Free Checklists checkli.com