

Skills Needed To Be A Successful Data Scientist

Data Scientist, the most demanded job of 21st century, requires multidisciplinary skills – mix of Math, Statistics, Computer Science, Communication & Business Acumen.

Math & Statistics

- Statistical Modelling
- Machine Learning, Decision trees, Supervised/Unsupervised learning
- Experiment Design
- Bayesian Interface
- Clustering, Optimization gradient descent & variants
- Logistic regression

Programming & Database

- Python, Java, R, C++
- Databases: SQL, NoSQL
- Mapreduce concepts
- Hadoop, Hive/Pig
- SaaS, IaaS, Web platforms: AWS, Watson, etc
- Parallel databases & parallel query
- Computer science fundamentals

Business & Domain Knowledge

- Business processes, Strategic Direction
- Problem Solver, curious about data
- Business Leadership & Influence skills
- Business Planning & Roadmap
- Innovative & collaborative Mindset
- Engage key stake holders

Communication & Visualization

- Data Presentation & Story Telling
- Visual Art Design
- Data visualization tools: Tableau, Flare, D3js
- R packages: lattice, ggplot, etc., JQSN
- Infogram, Qlik etc

