Data Scientists Jack of all trades

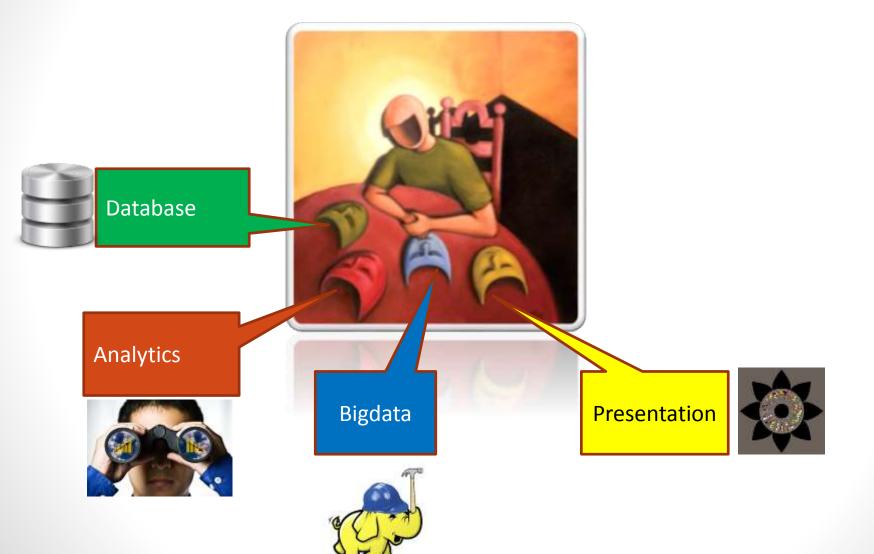
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Data Scientist - FAQs

- Who is a data scientist?
- What it takes to be a data scientist?
- What are the main skills required to be a data scientist?
- What are the most widely used tools by data scientists?
- What is the difference between a data analyst and a data scientist?
- I work on data, can I call myself as a data scientist?
- I know Hadoop, am I a data scientist?

We will try to get answers to few questions....

Four main Skills



The Techniques

Database Knowledge

- Data base Management
- Data blending
- Querying
- Data manipulations

Predictive Analytics

- Basic descriptive statistics
- Advanced analytics
- Predictive modeling

Big Data knowledge

- Big Data analytics
- Machine learning
- Unstructured data analysis

Presentation Skill

- Data visualizations
- Report design
- Insights presentation

The Tools

Database tools

- SQL/MySql
- OLAP cubes
- Teradata
- DB2/Sql Server/ Oracle/ Informix/Exadata

Analytical tools

- SAS/R/SPSS
- Text Miner/ KXEN

Big Data Tools

- Hadoop, Hive, Pig, Sqoop, Flume, Mahout
- Python and Ruby Languages
- Matlab/octave/Scikit

Presentation Tools

- Excel
- Tableau /Qlikview

How do I become a data scientist

Database Developers

- Learn analytics and predictive modeling
- Then go to Bigdata tools
- Visualization skills can be improved in the end

Data Analysts

- You must be having sufficient database knowledge
- Focus on Bigdata tools & techniques
- Then go to visualizations

Big Data Developers

- Start with basic database management skills
- Learn analytical techniques and their implementation

Reporting Analyst

- You must be having database knowledge
- Learn analytics and predictive modeling
- Finally to go to Bigdata tools

Some Basics

- What is Bigdata analytics?
 http://www.slideshare.net/21 venkat/basics-of-bigdata
- What is Predictive Modeling?
 http://www.slideshare.net/21 venkat/introduction-to-predictive-modeling-v1
- Introduction to R http://www.slideshare.net/21 venkat/express-introduction-to-r
- Other Analytics PPTs
 http://www.slideshare.net/21 venkat/presentations

Thank You

Image Sources

- http://www.coolinfographics.com/blog/tag/social?currentPage=5
- http://blog.kurtosys.com/data-visualization-marketing-reporting/