

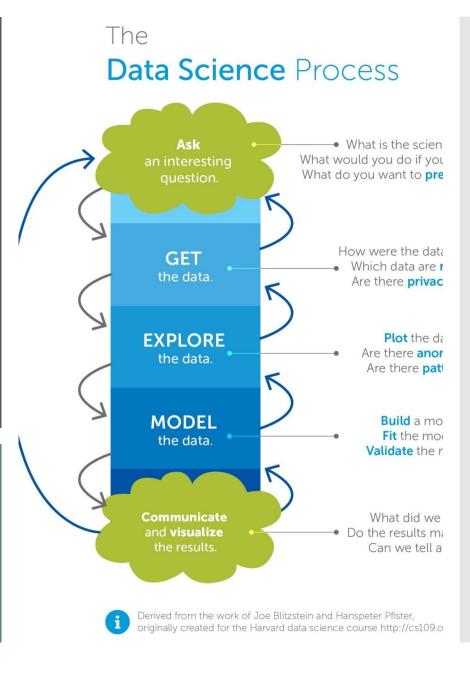
B.Tech Data Science

Data science is an interdisciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from many structural and unstructured data. Data science is related to data mining, deep learning and bigdata.

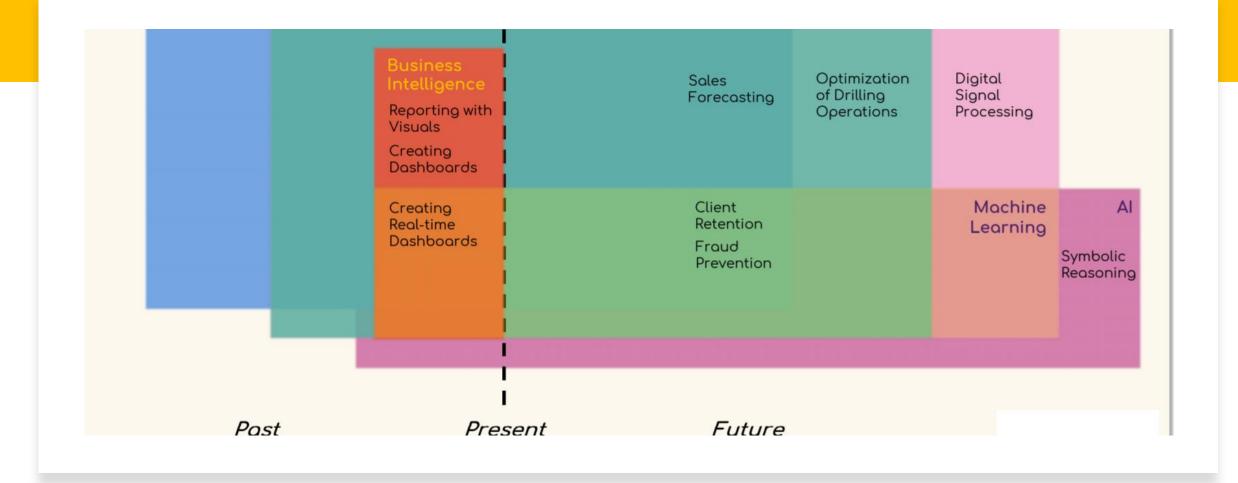
Data science is a "concept to unify statistics, data analysis, machine learning, domain knowledge and their related methods" in order to "understand and analyze actual phenomena" with data.



## Data Science Anatomy



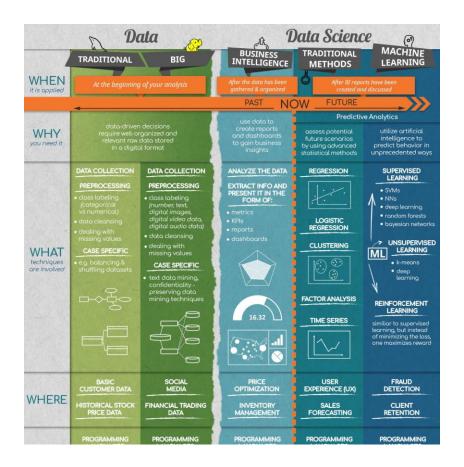
- Data Science is about storytelling and making sense of numbers.
  - Data
  - Algorithm
  - Insight
- Teams
  - Data or Big Data Team will collect Data
  - The business intelligence team will provide a business insights Dashboard & Reports
  - The data science team will use some business analytics or data analytics tools to develop models that could predict future outcomes.

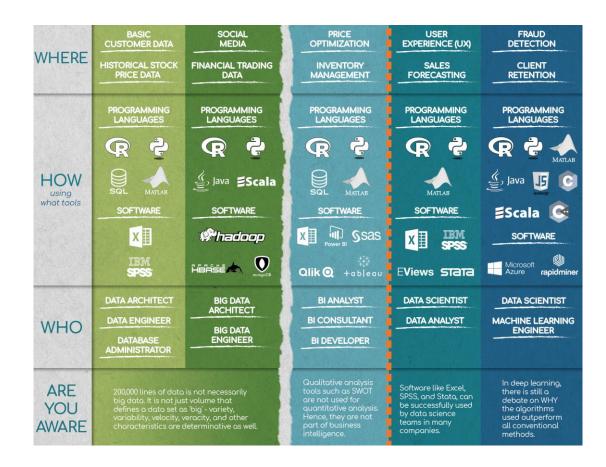


Few Buzzwords

- Analysis vs Analytics
- Qualitative vs Quantitative
- Business >> Data >> Machine Learning
- Business Intelligence (BI)







## Complete Data Science Picture





## Data Science in Organizations

- Role of Data Analytics across organization verticals
  - Marketing and Sales
  - Operations
  - Data-driven ventures
- Data Strategy & Impact
  - Strategy and value
  - Talent and organization
  - Governance, access and quality
  - Technology and tools
  - Integration and adoption

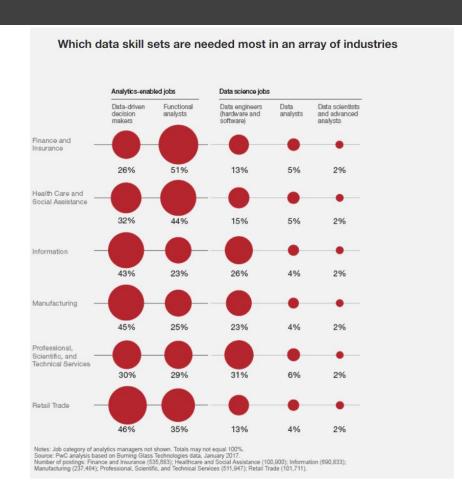


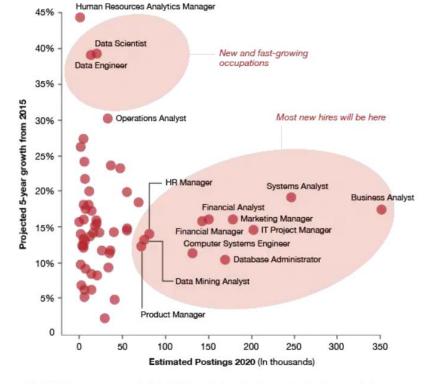
## Real Life Implementations

"High on the agenda is saving time, money and effort by optimizing supply chains, improving customer experiences and streamlining operations."

Chris Degenaar

EY Asia-Pacific Consulting Technology Leader





Note: Each dot represents an occupation in the US jobs market where data science and analytics skills are required. Source: PwC analysis based on Burning Glass Technologies data, January 2017.

