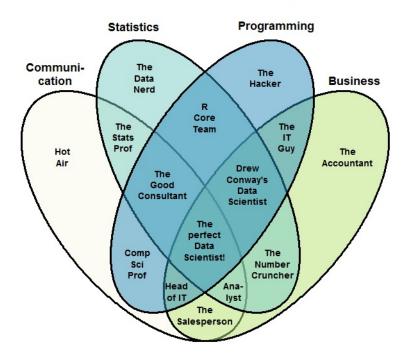
Welcome to Data Science!

What is Data Science?

 Combines statistics, programming, information science, and business acumen

Make data actionable!

The Data Scientist Venn Diagram



Why is Data Science the Top Job?

EVERYONE needs data scientists! Not just tech companies

Not enough data scientists to go around!

Organizations face enormous challenges organizing data

In what Industries are Data Scientists Working?

- Biotechnology
- Energy
- Transportation
- Telecommunications
- Social Media
- Finance
- Insurance
- Healthcare and pharmaceuticals
- Internet

About this Course

Your Journey through This Course

Basic Statistics

Statistical Programming in R

Programming Foundations in Python

Databases

Data Wrangling and Visualization

Intermediate Statistics

Machine Learning and Modeling

Intro to Big Data

Metrics and Data Processing, Project Management

Group Project

All are 3 week modules

6 week finale

Your Journey through This Course

Basic Statistics

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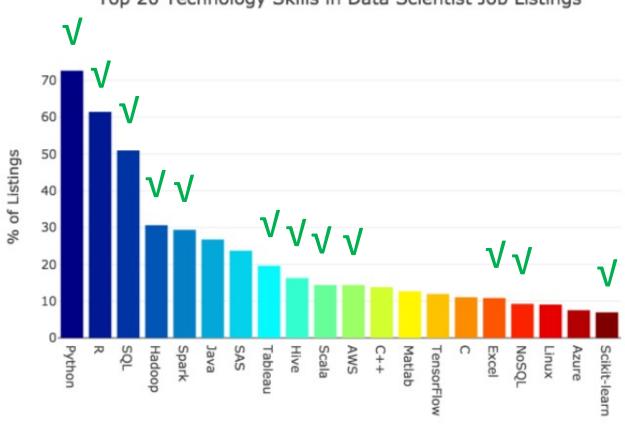
Group Project

Taken in this order

Completed in any order

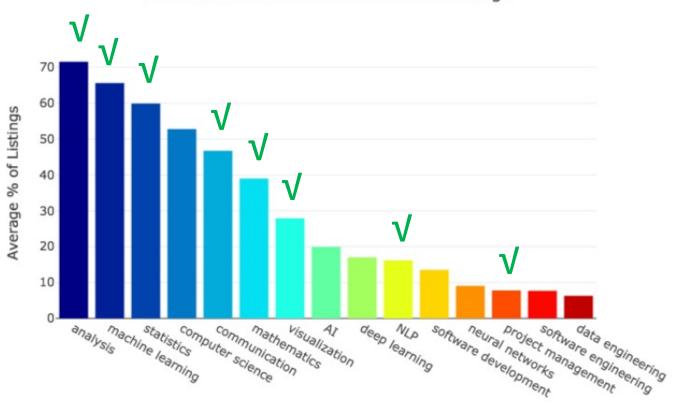
What Major Software Programs will you learn?





What Data Science Skills will you learn?

General Skills in Data Scientist Job Listings



What can I do when I graduate?

Experience Level	Entry	Mid	High
Job titles	Data Specialist	 Junior Data Scientist Data Analyst Market Analyst Business Analyst Program Evaluator Associate Researcher Scientist Statistician Intelligence Analyst 	 Project Manager Data Scientist Senior Data Scientist Data Engineer Modeler Researcher Senior Scientist Biostatistician
Skills needed	MS Excel MS Access	 Statistical Programming in R and Python, SAS, SPSS, MiniTab, or MLAB Database manipulation through SQL Data visualization in Tableau and other stats programs 	 Programming in Python Machine learning, deep learning AWS, Spark, Hadoop, Jira Project management in Agile, Waterfall Publication of findings
Applications	Data entryBasic analysisDescriptive statistics	 Analysis for businesses Scientific, and research applications 	 Analysis for large and/or complex businesses Scientific, and research applications

Questions?