

Learn Data Science Online
With an Industry Mentor

**What are the
different roles in
Data Science?**

Key Takeaways

- Data Scientist is not the only job title around
- Depending on your skills and interests, a wide variety of job titles might fit you
- The exact requirements of a job can vary a lot by company and industry

A sampling from Kaggle Jobs

- Data Engineer
- Machine Learning Engineer
- Data Engineer – Insights
- Data Scientist
- Associate Data Scientist
- Lead Data Scientist
- Data Science Manager
- Data Analyst
- Health Analytics Specialist
- Product Analyst
- Marketing Research Analyst
- Risk Analyst
- Data Visualization Analyst
- Data Architect Manager

Source: <http://kaggle.com/jobs>

How do I find the right title(s)?

(Hint, don't search only by title)

Data Analyst

- Junior or entry-level positions
- Query data and present business implications
- Use a lot of existing tools and analysis
- Common skills: SQL, Excel, R, Tableau, Regression
- Business and communication skills important
- **Variants:** Product/Marketing/Risk Analyst

Data Scientist

- A 'unicorn' position requiring a variety of skills: algorithms, programming, communication
- Familiarity with the entire DS workflow: extract and clean data, EDA, machine learning, presentations
- Cross-functional role, working with product, tech, sales, marketing
- Some companies require a Master's or background in Computer Science/Software development
- **Variants:** Associate/Senior/Lead/Product Data Scientist

Data Engineer

- Build data systems at scale
- Work closely with data scientists to scale their models and prototypes
- Need a foundational understanding of machine learning and other DS techniques, but primarily focused on engineering
- Skills: SQL, NoSQL, Hadoop, Spark, Java, Scala, Python
- **Variants:** Machine Learning Engineer, Big Data Engineer

**So how do you figure out the
right job titles for you?**

Find job descriptions

- Using LinkedIn or Kaggle jobs, identify 10 job descriptions that interest you and that you think you could do
 - Be ambitious! Applicants often disqualify themselves prematurely
 - If you have 50% of the core skills listed, you can probably do the job
 - LinkedIn premium has many advanced search features
- You can start with job titles other Springboard alums now have
 - Data Analyst
 - Risk Analyst

Identify common keywords

- What are the most common skills and keywords in the 10 job descriptions you've identified? These could be:
 - Machine Learning
 - Python
 - Scikit-learn
 - R
 - Predictive modeling
- You could find these keywords manually, or you could use data science to do it for you (e.g. use a word cloud generator)

Use these keyphrases to search again

- Use a combination of keyphrases to search LinkedIn or Kaggle
- These results should have a variety of job titles
- Go through the top 25-50 results and pick 5-10 job descriptions that you feel comfortable with
- Note down their titles - these are the titles you're looking for
- Verify them using expert feedback e.g. your mentor or career advisor

Summary

- Data Scientist is not the only job title in data science!
 - Data Engineer, Data Analyst, Data Scientist and many variants of these
- Search systematically to find your ideal job titles and descriptions
 - Be ambitious in your search
 - Search by skills rather than titles
- LinkedIn Advanced Search offers many different ways to search, especially in the premium version