Describe an interesting job that you want to have in the future. You should say:

What it is

How you can find this job

What qualities it requires

And explain why it is an interesting job

I want to be a data scientist in the future. The data scientist uses data, statistical and machine learning models, and computing to solve business problems. For example, machine learning allows data scientist to offer you personalized recommendations based on your previous purchases or activity. To find this kind of job, first, I will use online job search engines and social media sites such as LinkedIn to find job opportunities, connect with people in the field data analysis, and perhaps get me a referral. Data scientist must embrace a true passion for problem solving. Since it’s much hard to learn qualitative skills, such as communications and curiosity, than it is to learn the latest algorithm or programming platform. Data scientists also should have an open mind set to embrace data and algorithm, and also being willing to be flexible. And they need a level of business acumen. It’s a very unstructured job, which leads to a lot of possibilities. The exact approach, tools, and technologies you use to solve problems is up to you. There is nothing that says you have to do things a certain way. This is awesome because it always keeps the job challenging and interesting.

I want to be a data scientist in the future. The main responsibility of a data scientist is to solve business problems. More specifically, the data scientist uses data, statistical and machine learning models, and computing to solve problems. For example, machine learning allows data scientist to offer you personalized recommendations based on your previous purchases or activity. To find this kind of job, first, I will use online job search engines and social media sites such as LinkedIn to find job opportunities, connect with people in the field data analysis, and perhaps get me a referral. Then I should match my resume to the job description and apply for jobs. Finally, I will ace the interview. In terms of personal qualities, a curiosity about data is essential, as well as communications skills. Data scientist must embrace a true passion for problem solving. Since it’s much hard to learn qualitative skills, such as communications and curiosity, than it is to learn the latest algorithm or programming platform. They should constantly evolve their technical and problem-solving skills. Data scientists also should have an open mind set to embrace data and algorithm, and also bing willing to be flexible. And they need a level of business acumen and an open mind to understand what the underlying problem is. Data scientist needs to be a team player. It’s necessary to rely on the combined strength of your team to solve problems more efficiently. It’s a very unstructured job, which leads to a lot of possibilities. The exact approach, tools, and technologies you use to solve problems is up to you. There is nothing that says you have to do things a certain way. This is awesome because it always keeps the job challenging and interesting.

Strong in business someone with a broader view of the latest research and development in academia and industry.

A data scientist needs to go beyond identifying and analyzing a problem – he or she needs to solve it. An abundance of data does not necessarily mean an abundance of good data. If you simply run data through a block of code, you won’t have a successful solution. The successful data scientists I have worked with don’t just process the biggest data or implement the most advanced algorithm, they solve the problem. It’s the people who have an innate drive to find solutions for the right problem that will be the most successful as data scientists.

In terms of personal qualities, a curiosity about data is essential, as well as communications skills, says Hanks. “People on my team spend a lot of time talking to customers to figure out what problems they need to solve, or talking to data vendors to find out what they can provide. So you become a middle man and communication is very important.”

It’s a very unstructured job, which leads to a lot of possibilities. The exact approach, tools, and technologies you use to solve problems is up to you. There is nothing that says you have to do things a certain way. This is awesome because it always keeps the job challenging and interesting.

* **Online recommendations.**Machine learning allows retailers to offer you personalised recommendations based on your previous purchases or activity.

For example, if you build a model that allows a company to better target customers and this decreases acquisition costs by just 1%, it could mean millions of dollars saved for the company.  Also, it will result in happier customers that now see more relevant messaging instead of being bombarded by irrelevant marketing that they don’t care about all day.

It’s win-win – you get to make life better for your employer and the customers while doing something that is both challenging and interesting.

if I know which company I want to work for, I will start by checking their website. I will also use online job search engines to widen my search. I would enter keywords like data scientist, algorithm and statistician etcetera and geographic location on popular sites such as Indeed, ZhiLian and Qianchengwuyou. Second, I will use social media sites such as LinkedIn to create a professional online profile and post a biography that lets potential employers get to know me. I

The main responsibility of a data scientist is to solve business problems. More specifically, the data scientist uses data, mathematical techniques (e.g., statistical and machine learning models), and computing to solve problems. Typically, the solution involves automating or optimizing an existing process or completing an analysis that creates actionable insights and will increase revenue or decrease costs.

It’s a very applied, “hands on,” role and it doesn’t focus primarily on theoretical research or algorithm design, despite what some may think.

* Meetings with other project stakeholders, IT, product teams, and engineering teams.
* Internal team meetings to discuss our work, progress, and approach.
* Meetings with clients (internal or external) to get project feedback.
* Data cleansing and exploration.
* Automating processes.
* Integrating processes.
* Researching techniques and technologies that may be useful.
* Building and testing machine-learning models and methodologies.
* Integrating business rules and requirements into complex mathematical models.
* Writing and testing code and data pipelines.

A lot of people that come from highly technical backgrounds, especially those stuck in academia, are sick of doing incredible work and then seeing very few, if any, people or companies leverage their results to make an impact. In data science, you get to see your results put into the marketplace to drive real change, which is extremely rewarding.

For example, if you build a model that allows a company to better target customers and this decreases acquisition costs by just 1%, it could mean millions of dollars saved for the company.  Also, it will result in happier customers that now see more relevant messaging instead of being bombarded by irrelevant marketing that they don’t care about all day.

It’s win-win – you get to make life better for your employer and the customers while doing something that is both challenging and interesting.

**DH: What skills should you develop if you want a data science job, and what programming languages should you learn?**

KM: First off,  you need to focus on the foundational math, stats, and computer science before diving into all the machine learning algorithms.

As far as programming, Python is the best language to learn, but [R](https://www.r-project.org/) is appropriate for some roles and companies. Also, SQL is used pretty much across the board but isn’t always a “make it or break it” skill.

**DH: How did you decide to get into data science?**

KM: I read an article about how it was a “sexy” job where a massive impact could be made and I knew that it was what I wanted to do. Unfortunately, I really struggled to break into the field just like everyone else.

Through months of trial and error, I was able to figure out what companies were looking for when it came to hiring data scientists. I realized it was all about being able to demonstrate that you’re capable of doing the job of a data scientist and presenting yourself and your work in a way that is compelling and relatable to companies.

**DH: Do you have any advice for would be data scientists who are trying to break into the industry?**

KM: Don’t get overwhelmed by crazy job descriptions or the amount of material that it seems like you need to know. Everybody else is facing these exact same challenges. If you’re interested in a job, then apply for it right now. Push your job search forward by taking action immediately and repeatedly until you are able to identify your weaknesses and then attack those while you continue to apply.

**DH: What do you think about tech “boot camps” for data science that purport to teach you everything you want to know in a few months?**

KM: I don’t typically recommend boot camps since most of them don’t prepare people to actually get jobs. Plus, there are less expensive ways to learn the technical skills.