Somikoron

Getting a Data Science Job at Home or Abroad

Nurur Rahman, PhD
Astrophysicist, Data Scientist, Entrepreneur

About The **Author**

Nurur Rahman has a Ph.D. in Astrophysics. He has spent eight years as a postdoctoral researcher at various institutes across the globe. One of those institutes was NASA's Jet Propulsion Lab at California, USA. After having an extensive career in academia, he made the changeover to the industry.

The author currently works as the Data Science Lead in a Fortune 500 company in New York City, USA. He has expertise in Actuarial Analytics, Financial Analytics, Digital Marketing, and AI Governance. To solve business problems he uses Artificial Intelligence, Machine Learning, Deep Learning, and Data Mining tools and techniques on a daily basis.

A graduate of the Department of Physics, University of Dhaka, Rahman lives in New York City. He can be reached either by email [hellonurur@gmail.com] or via LinkedIn [https://www.linkedin.com/in/nururrahman]. His WhatsApp contact number is +1 301 318 1202.

Nurur Rahman is the founder and CEO of Somikoron, an insurtech startup in Bangladesh.

The Big **Picture**

Data Science (DS) is an interdisciplinary field connecting various subject areas, including mathematics, statistics, computer science, and decision science [1]. Graduates from physics, chemistry, mathematics, biology, economics as well as all branches of engineering have foundational knowledge to succeed in this career. Domain knowledge or business expertise on a particular business function adds a differentiating edge in this profession.

In the past decade, DS has established itself as a much-coveted occupation. It is currently at the zenith in its popularity drawing highly technical and well-educated talents all over the world. The current market demand for DS professionals, usually known as data scientists, is at an all-time high and showing a steady upward trend in every sector across all industries [2].

The recent technological revolution has significantly changed our lives. Everything around us, whether it is a single person, a group of people forming a business, or an intelligent machine, such as Apple Siri or Amazon Alexa, is generating massive amount of data in real time. This data could have any type, size, or speed. For example, the data might be structured, such as a stock price table. It might be unstructured such as a comment, an image, a music clip, or a video clip in Facebook news feed or in YouTube. The size of the data could be small having just a Facebook 'like' on the post or it could be enormous, compris-
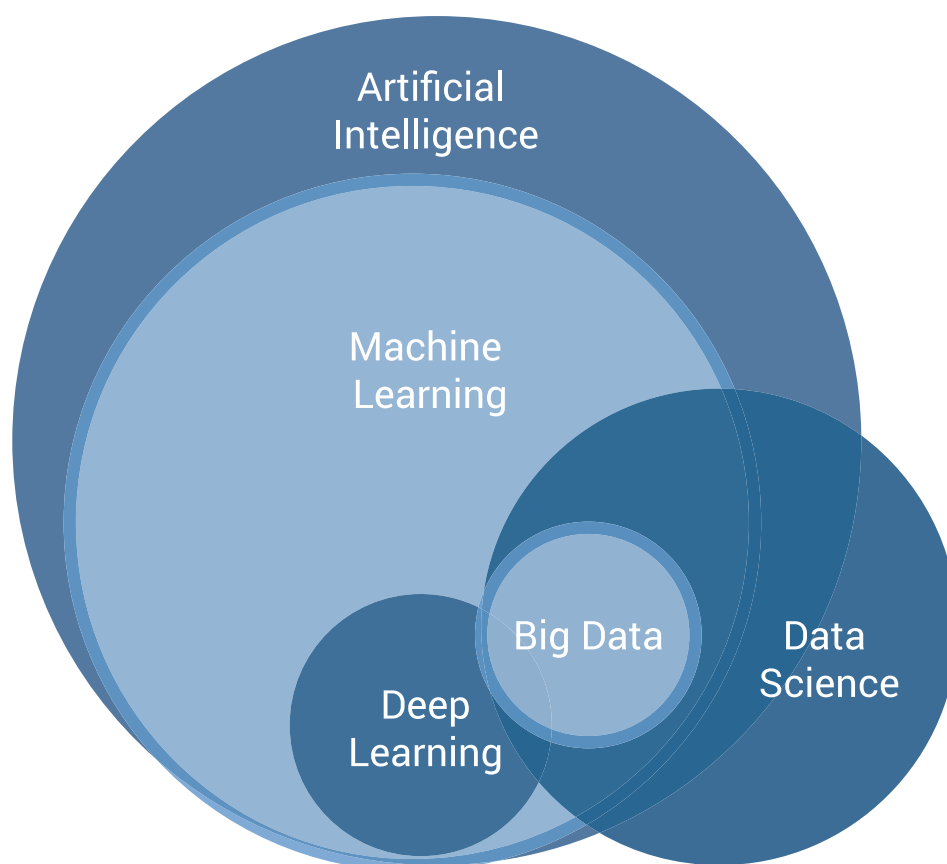
Connecting DS with Artificial Intelligence through Venn diagram
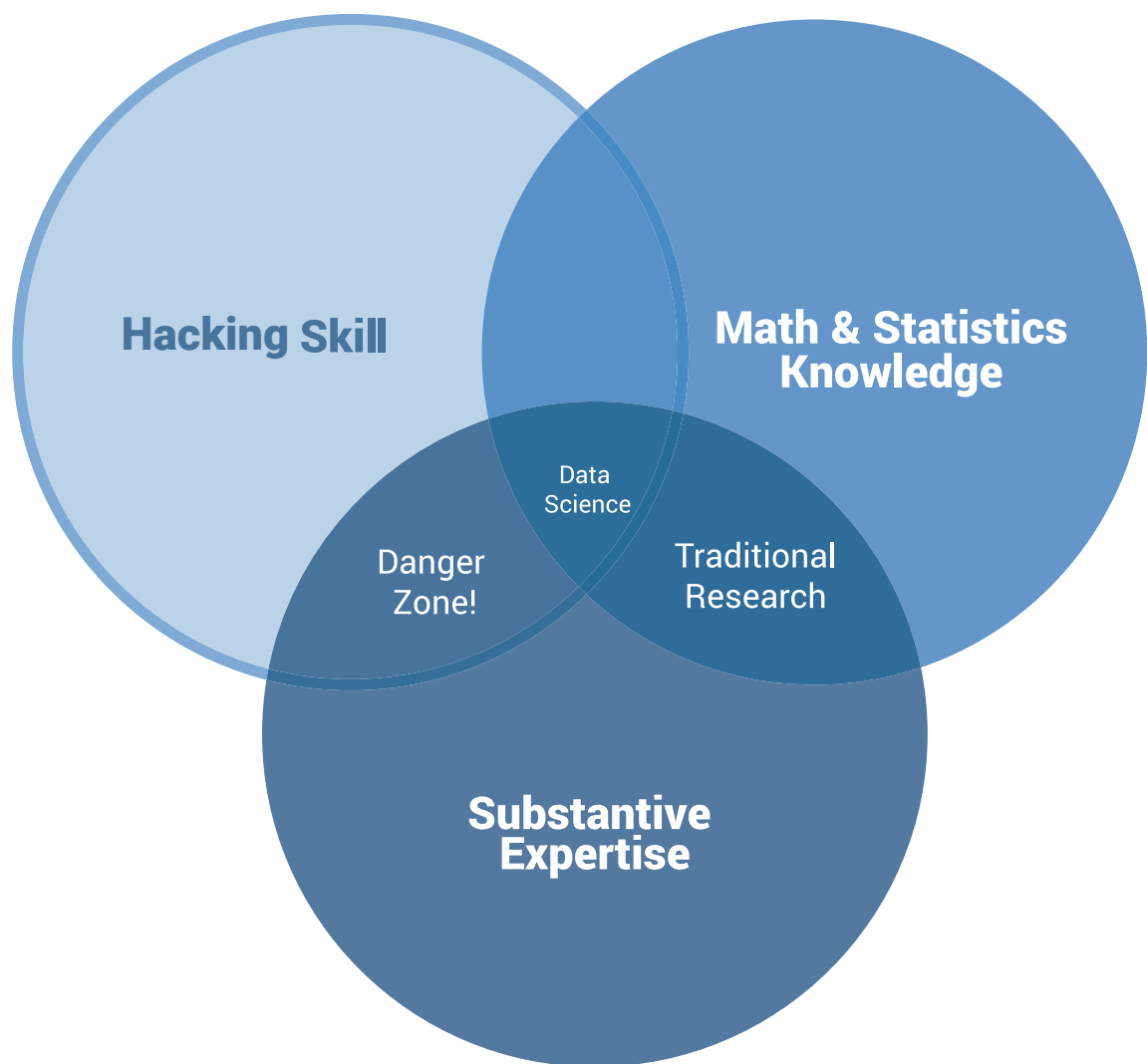
Expressing DS in real life through Venn diagram
source : Drew Conway

ing the news feeds of every user in any given day. The data might be a static table showing your travel itinerary or a live weather forecast on your mobile phone. The goal of DS is to bring insights out of the data, irrespective of its nature, volume, or pace, so that one can make informed decisions about data producing entities. However, the digital representation of data is the fundamental requirement for a successful application of DS.

Bangladesh is experiencing rapid economic development. This achievement is going in tandem with its digital accomplishment. Thanks to the 'Digital Bangladesh' [3] initiative to catalyze and accelerate the digitali-

zation in both public and private sectors and complementing the economic growth. The ongoing digital inclusion initiative by the government [4] and a recent boom in the e-commerce business [5] are two testaments of this successful strategy. As the country is enduring a gradual and systematic transformation, the digital ecosystem has started generating a vast amount of data. Mobile Financial Services (MFS) is the forerunner in this regard [6]. Top MFS companies, including BKash, Nagad, Upay, Rocket, mCash, and SureCash combined, make over 20 million transactions per day [7]. E-government, mobile operators, retail banks, insurance companies, and e-commerce businesses are other agents ac-

tively contributing to the big data making.

The continual digital advancement is certainly bringing complex issues, such as, big data management, processing, and business value of the data, to light. The public and private organizations, therefore, need to adopt effective technologies to store, manage, and process the vast amount of data. They must also ensure data security, usability, and applicability. At the same time, the enterprises need skilled workforce to appreciate and analyze the data and to maximize its benefits. Otherwise, a lack in the availability of proper technology and infrastructure, a deficiency in the high-tech workforce, or a combination of both, is going to impede the ongoing digitalization effort to turn it into the nation's strength.

It is encouraging that the Ministry of Post, Telecommunication, and Information Technology of Bangladesh government has undertaken all-out efforts in technology adoption [8], innovation [9], and development [10] through its two branches, including Post & Telecommunication division and Information & Communication Technology (ICT) division. The ICT division has been systematically working on human resource development [11], especially capacity improvements in DS [12]. As a result, the country is experiencing DS talent growth.

A handful of enterprises have embarked upon building DS awareness in the local job market and offering associated training programs. These ventures include eGeneration [13], Cognitive Insight Limited [14], HR Venture [15], and Value Base Academy [16]. The Institute of Statistical Research & Technology of Dhaka University is also playing an important role in producing talents [17].

The combined efforts facilitate e-commerce businesses and mobile operators hiring data scientists from the local market. Overall, DS is slowly emerging as a distinct job sector in the country [18]. However, the current job market is small, employing only a negligible fraction of the skilled workforce in this category. It is certain that continual digital development will accelerate the demand for data scientists in the local job market within next 3-5 years. It is, therefore, a great time for Bangladeshi youngsters to seriously think about a career in DS.

In this article, I provide some high-level guidelines to Bangladeshi job seekers who are exploring DS career path either at home or in abroad. Undergraduates or postgraduates who are fresh out of school and looking for DS jobs will find this note useful. Postdoctoral researchers who are pondering switching to the industry could also get pertinent advice. Those who are already in the industry but are interested in this profession will find my note handy.

This report contains my own view regarding DS job based on my experience as a hands-on data scientist as well as a team builder and a team manager.

The Preparation for a **DS Job**

No dream is too big to achieve. Your aspiration to become a data scientist at home or abroad is not an exception as well. You need to combine your determination with a strategy and focused efforts to grab the dream job.

Preparing for a DS job needs managing three inter-connected settings. These are: I) the groundwork for the job market, II) the preparation for the job interview, and III) the arrangements to succeed at work life. Your strategy should contain effective operational plans appropriate for all these situations. I will discuss some working plans below that are fitting in each of these cases. Let us start with the tasks you should do as a part of the foundation.
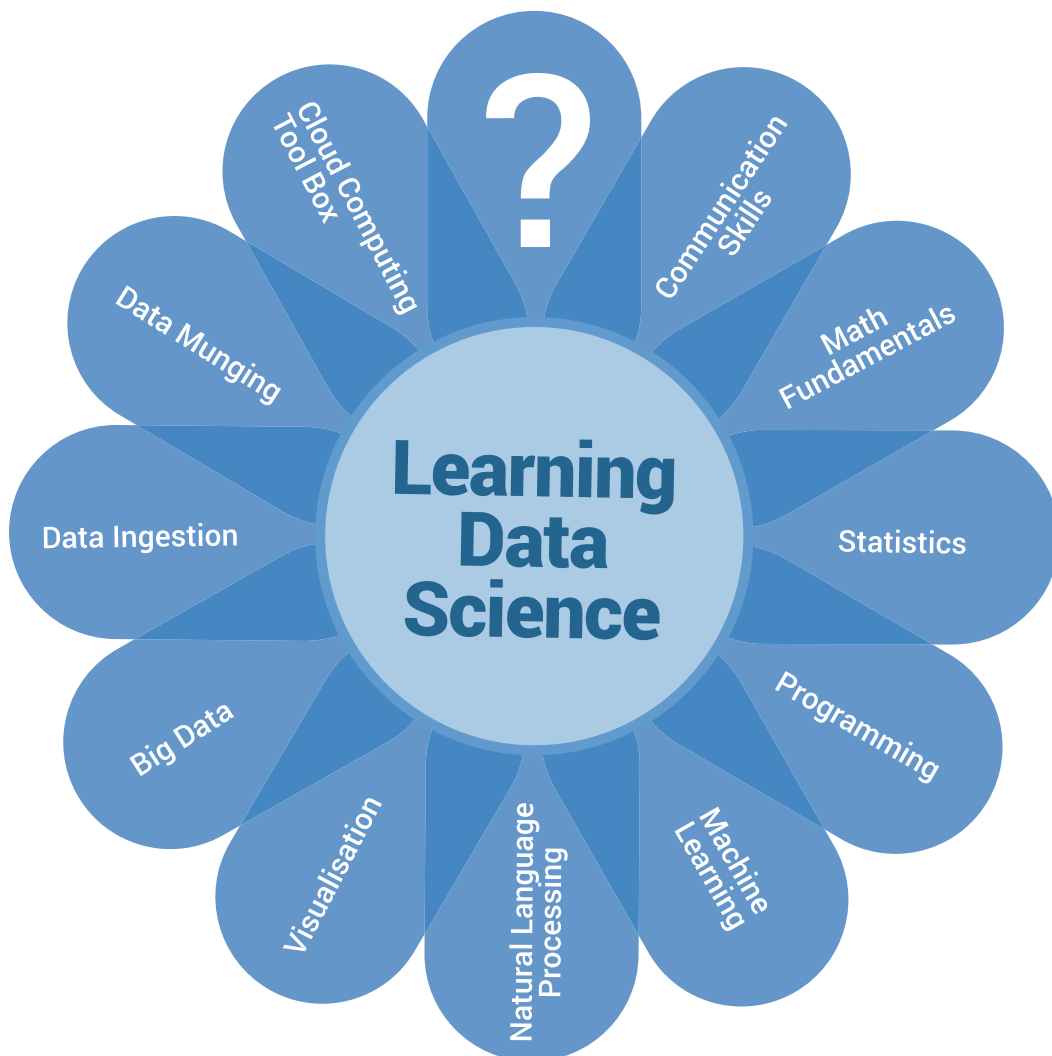
Learning DS means harnessing various skills

I. The Groundwork

1. Plan ahead about the future

You should make your career plan well ahead in time. You must know whether you want to move to the industry right after your BS degree, or you should wait until you finish your graduate degree. If you are pursuing a Ph.D., there will be two career paths to follow upon completion of your dissertation. You must decide whether you want to stay in academia for a few more years as a postdoctoral researcher to become a faculty or you should go straight to the industry right after finishing the dissertation. Clarity in your long-term goals will help you make better career plans.

2. Identify quantitative skills that you want to market

With regards to foundational knowledge, university graduates typically belong to two distinct groups. Those graduating from disciplines such as physics, chemistry, biology, etc., come with extensive mathematical or laboratory backgrounds. Graduates from computer science, electrical engineering, economics, applied mathematics, etc., typically have more experience in programming, computation, or statistics. Academic research experience is the common skill in both groups.

Technical skills develop by these two groups, therefore, differ significantly. For example, the former is great in devising, conducting, and leading experiments, and visualizing data whereas processing a large amount of data, writing excellent code, and developing software are the strengths of the latter. When you decide to go for a DS job, it is, therefore, important that you recognize your area of expertise and your skillsets. It helps you better

prepare to promote your talent.

## 3. Decide which industry fits your background

Data scientists are highly sought-after professionals in any industry, including defense, energy, finance, healthcare, insurance, pharmaceutical, retail, real estate among others. Explore the market demand through job sites such as LinkedIn [19], Indeed [20], etc.

Educational background and quantitative skills are the two major factors influencing industry selection. If, for example, you are a condensed matter physics or a molecular biology major and your strength is in laboratory research, you might fit into companies such as Intel, AstraZeneca, Pfizer etc. If software development is your passion, then Apple, Google, or Microsoft would be a great place to work.

The above-mentioned organizations are all great companies in North America or in Europe. In the context of Bangladesh, MFS firm such as BKash; mobile operators including Robi, Banglalink, Grameen; e-commerce businesses, for example, Daraz, Shoroz, ShopUp hire data scientists on a regular basis. Each of these organizations are actively involved in solving challenging business problems in their niche industries.

4. Prepare for the particular industry

Develop skills that are aligned to the industry needs. Typical academic programs are not well-designed for marketable skill development. Therefore, take the lead to identify your skill gap and work to narrow it down. If you are a major from physics, chemistry, math, you should explore online programs to improve your technical skills, for example, in
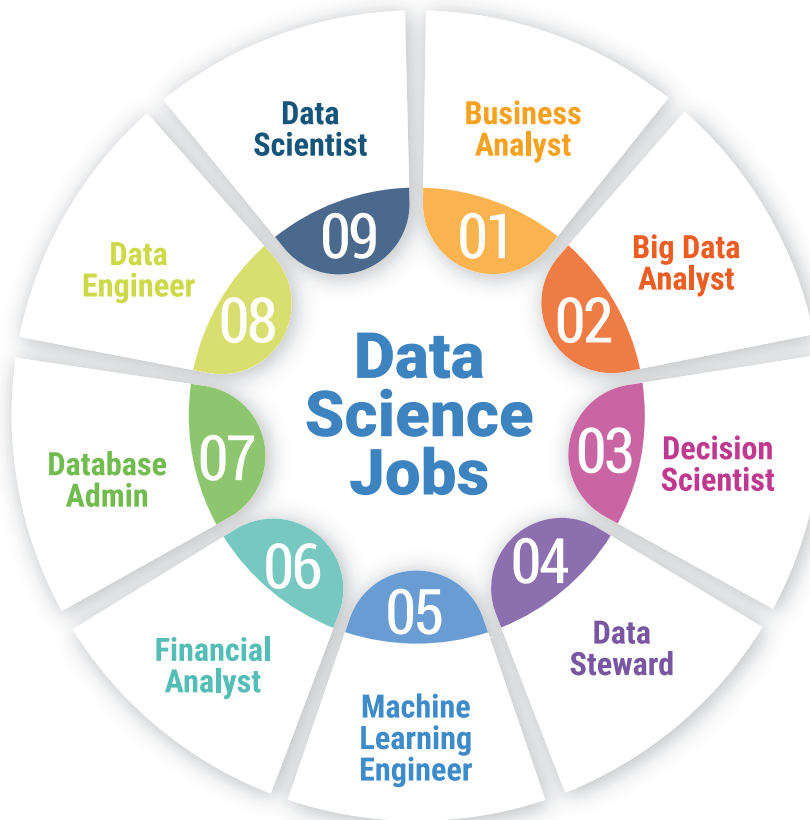
DS skills add competitive advantage to various jobs categories
source : clarusway

computer porgraming. Make extensive use of Massive Open Online Course (MOOC) for that purpose [21]. There are a number of online education providers that offer students access to a multitude of courses and specializations. Some of these even provide Bachelor's or Master's degree. The key on-line education providers offering curricula wordwide include Coursera [22], Edx [23], Khan Academy [24], The Great Courses [25], Udemy [26] and Udacity [27]. In Bangladesh you can also consult with eGeneration, Cognitive Insight Limited, HR Venture, and Value Base Academy.

Getting help from one of these online programs will be sufficient if you already have an academic degree, for example, in physics, chemical engineering, or economics and have decided to become a data scientist. You might not need to enroll in any on-campus programs for the following two reasons. First, in-class programs are significantly more expensive compared to any online courses. The Use of MOOC could literally save you tens of thousands of dollars (tens of lakhs of Taka). Second, the online programs or the bootcamps are tailored to help solve realistic business problems. This is an important experience that helps better prepare for the industry. It is unfortunate that typical academic programs are poorly designed in this particular aspect.

5. Write a well-formatted resume

The content of a resume varies from one job type to another. Its structure also changes with time as the years of experience grow. A resume needs to be fine-tuned to make it suitable for every new job description. Writing a well-formatted resume, therefore, is a form of

art. Finding the keywords in a job specification and combining these with a slew of action-words to undermine your skills and experience is a tedious task. It needs patience and a lot of practice. Reading successful resumes and understanding the reasons behind their successes can add value to your effort. You will come up with the best resume through many edits and revisions. Ask friends to critic the content and the style of your resume and include their feedbacks to improve. Repeat the feedback cycle until the resume reaches a satisfactory level.

If you do not have any prior industry experience, it is better to maintain a short resume. For example, if you are fresh out of university, your resume should be within two pages containing: 1) name, email, and phone number; 2) a short profile summary; 3) DS skills with concrete examples where and how you have developed those skills and applied to solve business problems; 4) technical skills such as programming, distributed computing, data processing, data visualization, etc. with specific examples; 5) prior research or work experience; 6) education, and finally 7) leadership skills or extra-curricular activities such as writing blogs, non-technical papers, etc. If you are active in competitions or other activities through any online community such as , Kaggle [28], you can include these in part 7 as well. Relegate everything else to your professional and technical profiles. I discuss about those profiles below.

The key point is to have a well-structured resume that can easily attract a human reader. To succeed automated application tracking and filtering system the resume needs to be updated on a regular basis, matching keywords present on the job descriptions.

6. Create a unique professional profile

A cool on-line presence helps. Consider digital profile as an advertisement of 'you as a brand'. In these days it is essential to be procative in promoting your brand. For this purpose I suggest that you use LinkedIn since it is the largest social media for professionals. The profile should have detailed information of your education, honors and rewards, past research experience, past work experience, skills that are either omitted or narrowed down in the resume. In this platform you have the opportunity to add the list of publications to further underscore your strengths. Having such a list in your profile helps securing some extra points for fully research oriented positions. For typical DS roles offered in the job market, however, an absence of a research publication list has a very low impact.

A great profile comes with a great profile photo. Avoid using a selfie or a cut-and-paste picture for the profile. Use a professional photographer instead. This may cost some extra money but the picture will convey a strong message about your sense of professionalism to the profile visitors. Do not underestimate the importance of great public appearance.

A LinkedIn profile increases your visibility to the community. This platform is widely used by the recruiters to track down profiles of potential job candidates. To reduce the risk of not being missed by recruiter's automated search, it is imperative that you work on your profile on a regular basis to keep it synched with your newly acquired skills and job experience.

7. Create a hub to display your accomplishments

Have an account in a collaboration platform like GitHub [29]. Use this medium to show off your technical knowledge and skillsets as well as your current and past accomplishments.

GitHub is very well structured and easy to use. Its usage has become a standard practice among programmers and developers. However, if you are new to this, here is one way you can use the platform : Collect projects that you have ever completed in the past that can be shared publicly. Group them into appropriate categories such as physics, chemistry, linear algebra, tensor analysis, C++, Java, JavaScript, PHP, Python, R, etc. Upload these projects as separate reposetories inside your account. These are the evidence of your skillsets and competencies. Write down the goals and motivations of each individual project clearly so that the visitors can have the high-level idea about the projects. Also provide documentation on data extraction, data processing, data manipulation techniques, algorithms, software, outcomes, inferences, etc., used in the projects.

A well-maintained GitHub account facilitates a recruiter's job and reduces the amount of time lost in unwarranted email communications. It replaces the time needed to write a lengthy message with the click of a button.

Use this platform to present a 360-degree view of your competencies and be vocal about it during the interview.

If you maintain a personal website through any web hosting platforms, such as Wix [30] or WordPress [31], it can also accommodate most of the things mentioned above. However, a personal site may lack some atypical features of collaboration platforms, such as

sharing, forking, etc. This is something to have in mind. It is a good practice to link the personal web page and the LinkedIn profile for easy navigation from one site to the other.

You can also use open source projects, such as GitBook [32], JupyterBook [33], or Deep-Note [34], for building publication-quality web-books and documents using computational material, including markdown, jupyter notebook, etc. These are great tools to showcase your projects and share your projects with anyone via the web.

8. Join the Kaggle community

Kaggle is an internet community of data scientists and machine learning practitioners. It is a place for various online activities, including sharing DS ideas, competing against other data scientists, and learning data manipulating techniques as well as learning programming tips and tricks. Data scientists of all levels can benefit from the resources available on the platform. Whether you are a beginner, looking to learn new skills and contribute to a project, an advanced data scientist looking for competitions, or somewhere in between, Kaggle is a great on-line group to connect to.

9. Be consistent with information flow

Be consistent with information present in your resume as well as in your online profiles, such as LinkedIn, GitHub, and Kaggle. Do not put conflicting information in these communication outlets. It will negatively impact your branding efforts.

10. Increase online visibility

Communication skill is an important knack that helps to become a successful data scientist. Writing blogs help you develop that capacity because it requires thinking and writ-

ing ability as well as presentation skill. Online blogs provide a great opportunity to reach out to the world and showcase your expertise. Use LinkedIn, GitHub, Medium [35], Towards Data Science [36], Kaggle, or your personal website to share your experience, thoughts, and opinions with people around the world.

11. Develop soft skills

Soft skill is a set of personality traits that characterize a person's relationships within a group of people [37]. These skills are the personal attributes that enable us to interact effectively and harmoniously with other people irrespective of their cultural, educational, religious, or professional background. Soft skills include social manners, communication abilities, language skills, personal habits, cognitive or emotional empathy, time management, teamwork, leadership traits, etc.

These skills are different than hard skills. The latter is well known to us which include things such as your degree in computer science, your programming skills in C++, Java, Python, or R, or your technical skills in Laser Interferometer and Beam Splitter. While academic environment rarely discusses about acquiring soft skills, research suggests that the soft skills are the key to make the best career in corporate environment [38]. The observation implies that it is not "how much subject matter expertise one has" or "how many degrees one has" that matters the most in the industry, i.e., in work life. Rather, it is how one deals with people around them that defines career success.

Let us take a closer look at this skill. Let's assume that you are still in the university. You have been working with your peers for the past 4 years. You are confident about your relationship with the team because you are considered a good team player. Does it imply that you have become a master of the skill? Well, not quite because it is likely that you spent your time with peers who think, talk, and look-alike. Your peers might also be in the same age group, although there might be some cultural differences. Now, let's assume another situation where you start working with a group of people, who you never met before, and, who come from diverse educational backgrounds such as Psychology, Organizational Psychology, Literature, Business Administration, Marketing, Finance, Electrical Engineering, etc. The age of the members ranges from 25 to 65. The gender, race, and work experience of the team members also vary substantially. The test of soft skills mastery would be to find out how quickly you could develop a productive working relationship with the members of this group. The fact is, as a true master of soft skills, you will shine like a diamond in such work environments.

Acing various kinds of soft skills requires a lot of time and conscious effort. I strongly recommend that you develop these skills proactively and nurture them passionately. These aptitudes are of vital importance to succeed in both personal and professional lives.

12. Connect with people

Attend networking events both on-campus and off-campus. Introduce yourself to people from all sorts of backgrounds and don't just focus on recruiters and hiring managers. Develop a habit of maintaining regular communication with people regardless of your need or the situation.

Research in social network studies suggested that people find jobs mostly through their

DS interview process cover a range of topics
source: superdatascience

weakest social ties [39]. The conclusion means is that you are more likely to find a job with the help of "a friend of a friend" rather than with the help of "a friend" who you spend most of your time with. In other words, you are benefited of and rewarded from having a social network with people coming from wider and diverse background. However, the key point is to maintain a harmonious public relationship whether or not you are a student, job seeker, or a working professional. Surveys in the past have assessed the influence of people's network on a job search [40]. The outcomes of these reports indicate that a significant fraction of working professionals (70% - 80%) find jobs through their networks. Therefore, connect with people around you whenever an opportunity comes on your way. These social links will help you grow both personally and professionally.

II. The Job Interview

I am certain that your determination and preparation will pay off at some point in time. The recruiters will find you from the talent pool and get you involved in the job interview processes. Success in this phase requires different types of working plans that I discuss below. Before I talk about these plans, let me provide a high-level overview of the job interview process in the industry. A typical DS job interview generally involves two distinct steps but the number might vary depending on the company that is hiring. For example, interviews in Amazon, Facebook, Google, or Shopify are conducted in 3 to 5 successive steps, including a few sessions of real-time paired programing as well as behavioral examinations.

For the majority of companies, however, interview is still a two step process and my suggestions are based on this observation. The first step is usually a short (thirty to forty-five minutes) telephone or video interview with the hiring manager. During initial screening a manager usually pays attention to a candidate's

communication skills and the alignment between candidate's expertise and the team's need. You will be invited for the next round if both party can build the rapport. The second step is either a face-to-face or a video interview involving the entire team. This stage occasionally spans a few hours. Sometimes you will be asked to give a presentation in front of the team.

1. Study the company

Before the first-round interview, learn as much as you can about the company and the industry it belongs to. It is likely that you will be aksed many interesting questions, such as "Why do you want to work for our company?", at some point during the interview. As a DS hiring mananger, I have noticed majority of the candidates struggle answering this simple yet revealing question. You should be well prepared in responding any such question because a good answer creates a positive first impression. This is where un-prepared candidates will fail the interview. Note that it is easy to have an answer ready for such a question. All you need to do is to look for company's goal, vision, mission, etc., and then summarize the collected information in creating your response. First impression plays a critical role in any human interaction. Therefore, do not fail in establishing a good image during the first-round.

2. Know more about the hiring manager and the team

If you know the name of the hiring manager than research on the person prior to the initial interview. Use LinkedIn as the starting point and use Google to gather information, such as educational background, personality, interest, etc. It is good to have a perception about the person you will be talking to during the interview (and maybe working with later). Information is power. The more data you have, the more advantage you have in navigating through the phases of the interview. When invited for the second-round interview, do a similar background study on the team members to learn about their experience, technical skills, etc. Knowing your audience better will help you better prepared for the interview.

3. Study common interview questions

You have to be prepared for both behavioral and technical questions during the interview. Questions under these categories vary widely and depend on various factors, such as the industry, company size, reputation, etc. Employer review websites, including Glassdoor [41], Indeed, CareerBuilder [42], give access to company specific as well as role specific interview questions. Visit these online places and make yourself familiar with people's experiences when preparing for a specific role for a specific company. These websites contain thousands of general purpose interview questions; however, for in-depth technical questions and answers, make yourself faimilar with services offered by LeetCode [43], CoderByte [44], HackerRank [45], etc.

4. Ask well-thought-out questions during the interview

You will be invited to ask questions near the end of the interview. Prepare a list of questions for the manager as well as for the team members. The list should have questions about the roles and responsibilities of the members, technologies used to perform daily tasks, business stakeholders, the need of your expertise in the team, team dynamics, and work-life balance, etc. You should also ask questions regarding technology infrastructure, data maintenance, data usage, data quality issues, career progression opportuni-

ties, etc. Your extra work will not go unnoticed and it is likely to impress the manager.

5. Prepare a deck for a video interview

Video interview is becoming a norm and the covid 19 pandemic is accelerating the trend. If you are invited for such an interview, I strongly recommend that you prepare a deck to walk through your resume. Highlight the key parts including educational background, work history, and other activities in the deck. Be aware that for a successful presentation, the deck must be well-structured and the slides must flow like a story.

6. Use web-based interactive platform

Sometimes you will be invited to do live coding during the interview. In this case, a standard practice is to use web-based, interactive computing platform, such as Jupyter Notebook [46] for programming exercises. For testing your SQL knowledge the interviewer might ask you to work on a different platform, including Codebunk [47], Coderpad [48], and Coding View [49]. Having some decent work experience in these environments will help you acing the interview.

7. Thank the manager and the team

Follow-up with the manager and the team with a thank-you note for sharing their valuable time. Thank them for providing you the opportunity to know about the team and the company. Courtesy matters, and it helps creating a lasting impression about you onto others.

III. Getting The Job

After a successful interview, you will be offered a position and asked to join the company within a certain period of time. The time period typically varies between two to four weeks. Accept the offer if it matches your expectations, including compensation, job tier, location, and many other things that are important to you.

If this is your very first DS job then leaving academia behind and starting a new career in the industry will be a life-changing event. You will encounter some obvious challenges right after entering into this phase of life. Use your positive energy and soft skills to breeze through these challenges. I have some suggestions below that you can include in your working plans. If you are already working in the industry but securing a new DS role, you may be familiar with some of the points by now.

1. Welcome the new work-life

The work-life in the industry is significantly different than that in the academia. Routine prevails in corporate life. You do your work each day from 9 am to 5 pm and follow this routine five days a week. Occasionally the workdays get longer, and the work-week stretches beyond its five days mark. You should make yourself comfortable with the work-life as quickly as you can.

2. Embrace the new workstyle

The corporate workstyle is fast-paced, and employees are usually involved with multiple concurrent responsibilities. Each task has its own goal, deadline, deliverables, and business partners. In the academia, quite often, you solved one problem at a time and went vertically deep into the research to find the best solution of the problem. However, multiple responsibilities pose a challenge in the industry, forbidding taking deeper dives in discovering great solutions to business problems.

Finding reasonable solutions and delivering them before or within the deadline is a much more effective way to get things done in this setting.

3. Accept the vagueness

Quite often, you will receive requests from business partners that will come with vague instructions and ambiguous business goals. Coping with this can be frustrating in the early days of your career, however, you will need to find a way to deal with it. In this situation, you should actively engage with the business partners, ask questions for clarification, and maintain steady communication until the instructions become clear to finish the task.

Recognize the scope of opacity as a wonderful opportunity to exploit your soft skills. Connect, talk, and engage with your peers in removing the obscurity. Simplify, produce, and deliver the assigned task to your stakeholder to become an indispensable asset.

4. Learn fast

Each company has its own way of getting things done. Some companies use cutting-edge, high-tech, and innovative tools and products to boost the productivity of employees. Some are still far behind, relying on conventional technologies. If you join a company as a data analyst or a data scientist, make yourself familiar with the landscape of tools, products, and technologies as fast as possible. Identify your technical gap in this setting and learn the essential technologies to make yourself an outstanding team member.

5. Prove your worth

Establishing the value of your role and responsibilities will have a direct impact on your success in the company.

Your job performance including your ability to get things done in time, your engagement with the team, your communication style with business partners, and many other factors, will be evaluated quietly but critically during the first three to six months. You should work smartly during this time. Remain alert about your work productivity and willingness to collaborate with others. Use your mastery in both hard and soft skills to become an invaluable asset to the company.

6. Remain humble

Be proud of and confident about your achievements. However, do not let those accomplishments take your humility away. Do not pull the plug of communications with your friends and colleagues in academia who are still struggling to make it. Remember that "Life is a marathon, not a sprint" and the success in this long run hinges on inter-dependence. You should stretch your hands whenever they are needed by others.

In the work environment, you will find people with less academic talent working either at or above your job tier. Do not let your exceptional talent cloud your judgment about people around you. Bear in mind that you will need their support in the future to move up in the job hierarchy. Use prudence to deal with people around you and apply your soft skills in building great working relationships.

The Final **Remarks**

Alexander Graham Bell, the famed inventor of practical telephone, once said "Before anything else, preparation is the key to success". The quote says it all. The better you prepare, the easier it will be for you to reach to your goal.
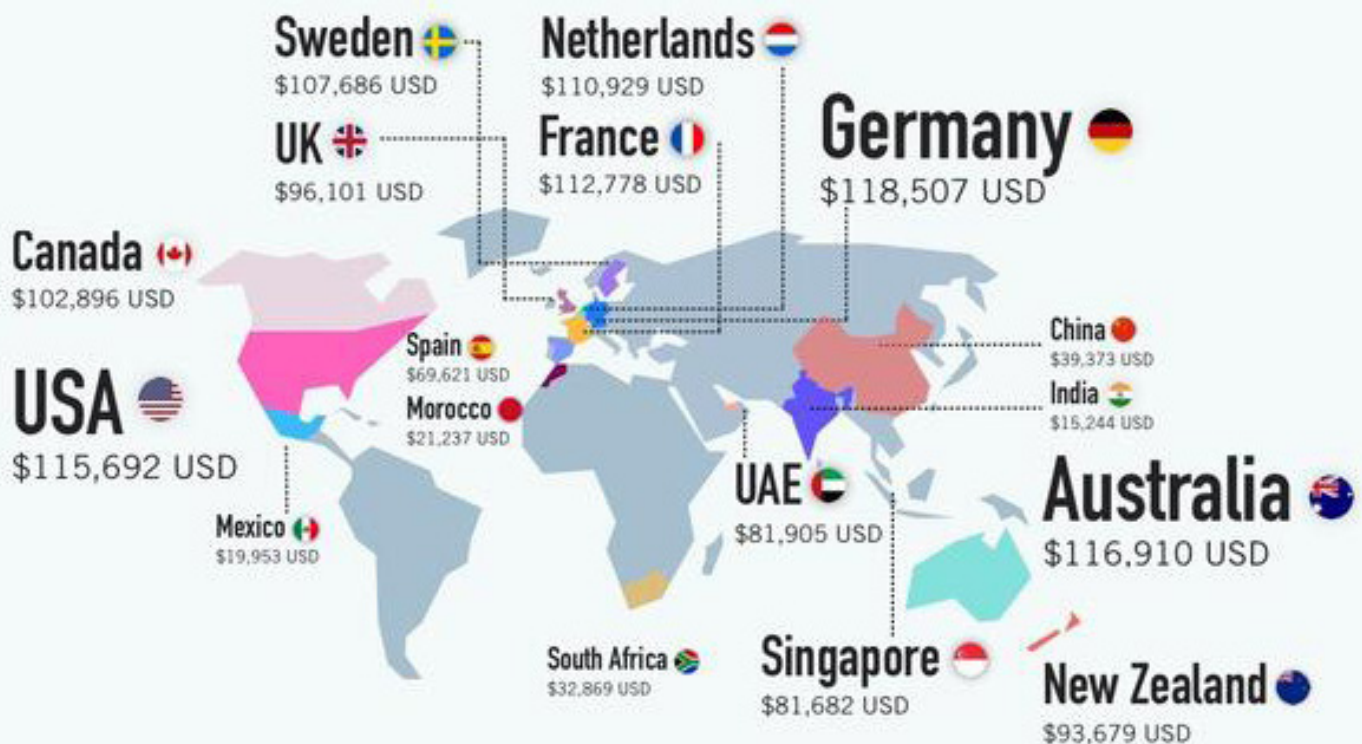
The DS is still an emerging job sector in Bangladesh. The current job market is small, only a small percentage of the local skilled workforce belongs to this profession. However, the country is on the track of permanent digital advancement, which will ultimately drive the need for a larger workforce in DS. Getting into the market now will give you a leg up over the future talents because you will have an unique opportunity to secure leading DS roles in the organizations by contributing more to their needs as well as gaining more experience. This strategy will help you stay ahead in the game when the demand will grow and there will more competition in the market.

I do hope that you will find my suggestions helpful in your preparation to secure your dream job either in Bangladesh, in the USA, or anywhere in the world. I am positive that your strategy and hard work will pay off. I am also mindful that the long working days during your training and ground work will wear you out. You will feel hopeless occasionally. Your dreams, plans, and optimisms will try to elude you. In those moments, have faith in yourself, stay focused, and remain positive. Remember, your dream will come true only if you have the courage and endurance to pursue it … Good luck.

Data Scientist Salaries by Industry in the USA

Industry	Salary
Insurance	$107K
Automotive	$108K
Advertising and PR	$110K
Aerospace	$120K
Real estate	$122K
E-commerce	$123K
Finance	$127K
Educational institutions	$139K
Securities, contracts, and financial investments	$144K
Computers, technology, and product manufacturing	$144K

Data Science Salary Guide

Sweden $107,686 USD
Netherlands $110,929 USD
UK $96,101 USD
France $112,778 USD
Germany $118,507 USD
Canada $102,896 USD
Spain $69,621 USD
Morocco $21,237 USD
USA $115,692 USD
Mexico $19,953 USD
China $39,373 USD
India $15,244 USD
UAE $81,905 USD
Australia $116,910 USD
South Africa $32,869 USD
Singapore $81,682 USD
New Zealand $93,679 USD

source : careerfoundry (data 2020-2021)

References

1. https://en.wikipedia.org/wiki/Data_science
2. https://www.forbes.com/sites/gilpress/2021/06/27/salaries-and-job-opportunities-for-data-scientists-continue-to-rise/?sh=3231dc464276
3. https://investindigitalbd.gov.bd/page/digital-bangladesh-vision-2021
4. https://www.weforum.org/agenda/2020/02/digital-inclusion-made-bangladesh-stand-out
5. https://www.statista.com/outlook/dmo/ecommerce/bangladesh
6. https://www.bb.org.bd/en/index.php/financialactivity/mfsdata
7. https://www.newagebd.net/article/143108/mfs-transactions-reach-fresh-record-of-tk-71247cr-in-may
8. https://www.oracle.com/apac/news/announcement/bdccl-gobd-selects-oracle-drcc-2021-12-20
9. https://www.weforum.org/agenda/2020/11/bangladesh-and-digital
10. https://www.theindependentbd.com/post/267889
11. http://bhtpa.gov.bd/site/page/b75f7889-05c8-446e-9a7b-8e5d1e2f339a
12. https://www.fujitsu.com/downloads/JP/group/fri/pressrelease/20190619en.pdf
13. https://egeneration.co/
14. https://cogniinsight.com/
15. https://hrventureai.com/
16. https://www.academy4value.com/
17. https://www.isrt.ac.bd/
18. https://www.tbsnews.net/tech/endless-possibilities-big-data-analytics-bangladesh-44041
19. https://www.linkedin.com/
20. https://www.indeed.com/
21. https://en.wikipedia.org/wiki/Massive_open_online_course
22. https://www.coursera.org/
23. https://www.edx.org/
24. https://en.wikipedia.org/wiki/Khan_Academy
25. https://www.thegreatcourses.com/
26. https://en.wikipedia.org/wiki/Udemy
27. https://www.udacity.com/
28. https://www.kaggle.com/
29. https://www.github.com/
30. https://www.wix.com/
31. https://wordpress.com/
32. https://www.gitbook.com/
33. https://jupyterbook.org/
34. https://deepnote.com/
35. https://medium.com/
36. https://towardsdatascience.com/
37. https://en.wikipedia.org/wiki/Soft_skills
38. https://www.nationalsoftskills.org/the-soft-skills-disconnect/
39. https://www.jstor.org/stable/2776392
40. https://www.payscale.com/career-advice/many-jobs-found-networking/
41. https://www.glassdoor.com/index.htm
42. https://www.careerbuilder.com/
43. https://leetcode.com/
44. https://coderbyte.com/
45. chttps://www.hackerrank.com/
46. https://jupyterbook.org/intro.html
47. https://codebunk.com/
48. https://coderpad.io/
49. https://codingview.io/

About **Somikoron**

Somikoron is an AI startup company. This venture stems from one single desire : make AI technologies accessible to every business sector in Bangladesh. Its purpose is to transform local industries to make them compatible with the Fourth Industrial Revolution (4IR). A group of highly skilled Bangladeshi expatriates is at the core of this undertaking.

Somikoron starts the journey by providing artificial intelligence, machine learning, deep learning, data science, and advanced analytics consulting and related services to public and private clients within insurance, finance, and retail industries.

Our intent is to develop intelligent solutions to have meaningful business impacts. At Somikoron that translates into building better products by expanding access to cutting-edge knowledge and technology. We believe we can achieve this goal by living our values to lead the way, serve with integrity, take care of our clients, and foster collaboration.

Visit us at somikoron.ai to learn more about our company's vision, mission, and core values. Follow us on LinkedIn, Twitter, or Facebook. Connect with us via email [somikoronai@gmail.com] or by WhatsApp [+1 301 318 1202].

Somikoron

The Transformer

Reshaping Bangladesh Insurance Industry