

Building the Best Data Science Teams

In today's world, data scientists can be considered as the most in-demand profession in the tech industry. However, if we ask some CIOs whether they consider this true, they might be in a difficult position to answer. The reason that seems valid is because the right structure of the data science teams doesn't seem to come up perfectly in any organization as expected. This is because sometimes it gets difficult for the CIOs to decide the roles and responsibilities for each professional in the data science domain. Data Science is undoubtedly the hottest job trend of the 21st century. There are several aspects of a company that are exclusively handled by Data Scientists only. Even the Decision-making process is backed up by strategizing Data, processed and unprocessed both.

As many industries seek and try to hire the best Data Science squads that involve the best Data Scientists, engineers, and analysts with perfect Data Science strategies, the processes and priorities of Data Science seem to be uncommon to them. Before performing any task, one should recognize the specific role that is eligible for a specific person, so that the very first step in the direction of success can be taken wisely. These strategies need to be well crafted to get the best talent. Without thorough planning and identifying the right skill, the output will not come out better and as expected.

The Data Science Job Roles

In other teams, say marketing, sales, HR, or finance - the teams usually have clear instructions, tasks, and responsibilities, however, when it comes to the data science teams it becomes different as there have been scenarios where data scientists are given the tasks of data mining or cleaning up of data. This, ideally is not the job of a data scientist, rather a data scientist should be interpreting data and help the organization make better decisions for business growth.

Organizations today are building data science teams according to their project needs, but due to irrelevant structure of the team leads to delay, imperfect approach, and mix up of business motives, which further leads to iterations and compromise in quality.

Below are the three job roles that are important in any data science team structure and also covers the responsibilities of each job role.

The Role of a Data Analyst

A very important job role is of a data analyst in any data science team which ideally should not be compromised substituting it with other job roles like data engineer. The data analyst extracts information from various data, uses data mining processes to pull out data, and analyzes the data for further interpretation to other teams. The tools used by data analysts are Microsoft Power BI, Tableau, Qlik, Yellowfin, Spark, SQL and other data analytics applications.

The Role of a Data Engineer

The most important task for a data engineer is to make sense of confusing data. The data engineer must clean up the raw data, make it look nice, understandable, and interpretable for senior team members such as a data scientist. A lot of time there could be an overlap of this role with the data analyst, however, extracting data and ensure a proper data hygiene.

The one who performs as a data engineer must be professional and effective at resolving puzzles, preparing various formats for inaccurate datasets, fix formats and fields in an application or a webpage. To work on their job roles, they are expected to have knowledge of programming languages like Python, R, SQL, and Spark.

The Role of a Data Scientist

Data scientists have a larger role to play in any data science team and are in the higher hierarchy of the team structure. They do various research and experiments on arranged data to find the queries hidden in it. It's a vast field for professionals that includes the work of analytics and processing data. IT has talked about big files and oceans of data for many years. The primary work of data scientists is to turn this ocean of cold files into informative data. Data scientists solve queries to dig deep in files. Many researchers have put out the fact that the corporations are looking for proficient data science talent and due to the shortage of talent, many job positions are left vacant for the period.

How to Relay Skills with Strategies

As per looking for the basic key roles, it's obvious that every business needs a technique to grow them and their teams. Each member in the team should understand their role and perform them with expertise and well-known skills. Professional teams with the right aids and advanced applications support businesses to lead successfully and resolve all the challenges that arise in the way of success.

So what to do to become a Data Scientist?

Data Science is one of the "hottest" jobs and is sure to grow further with a high pay scale. However, to acquire the best Data Science skills, what you are required is to enroll yourself in a Data Science course, be it a Data Science certification course or a Data Science degree/diploma course. Both the options are good to go with if you are looking forward to learning Data Science skills.

However, a Data Science certification course comes with the advantage of making you learn the skills in a short period with equal efficiency. These certification courses will teach the person the basics, and advanced levels of Data Science and are available at graduate, pre-professional, and post-professional levels.

Below are some renowned institutes offering the best Data Certification courses.

- SAS Data Science Certification
- Microsoft Certified Azure Data Scientist Certificate course
- United States Data Science Institute- The United States Data Science Institute (USDSI™) provides technical certifications for aspiring Data Science professionals. There are various certification courses available, both for fresher candidates as well as experienced Data Scientists. The institute has benefited thousands of students to grab themselves amazing job opportunities with well-paying jobs.
- Google Data Analytics Professional Certificate
- Professional Data Scientist Certificate course
- Cloudera Certified
- Data Science Certification Course, IBM
- Data Science Certification course, Harvard