

Data Science Jobs – Report 2022



A comparative study of how data science/analytics jobs and salary trends evolved from 2019-2022 [post-covid-19]










Introduction

This Data Science Salary Report 2022 and beyond is designed by [AnalytixLabs](#) - a premium institute to learn data science and related courses. It delves into the salary trends, number of job openings, and pay disparity in the data science domain in India specifically. It focuses on the changing landscape of data science from 2019 i.e before covid-19 hit the world and how the job market has evolved post the pandemic.



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Why Data Science?

Data Science is the science of applying analytical techniques to derive meaningful insights from huge data sets, both structured and unstructured, and facilitate important business decision-making and strategic planning.

A data scientist is an essential asset for any organization, especially in a time when organizations are dealing with huge data sets.

From understanding customer behavior across multiple digital and offline touchpoints to analyzing competitors' strategies – data scientists have the power to drive business decisions backed by facts and numbers.

From a broader perspective, this is also similar to what a business analyst does. But if you look closely, data science and business analytics are two different concepts. Business analytics is limited to business decisions only, while data science involves generating, managing, and effectively using data for technical and business purposes. More insights on how these two are different from each other is available here: [**Data Science vs. Business Analytics.**](#)



Impact Of Covid-19 On Indian Data Science Job Market

The highest number of data science jobs was recorded in 2022 at **1,80,468 JOB OPENINGS**



Covid 19 caused a severe blow to economies around the world. This, in turn, had a heavy impact on the overall job sector.

In January 2019, **World Bank predicted India's GDP to grow by 7.5% in the next two years. However, with Covid-19 in the picture in December 2019, the GDP crashed by 23.9%, taking India to its lowest ever GDP.** This low reflected steadily in the job sector.

With the pandemic in full force, the data science landscape saw a churn in the number of hirings and job creation.

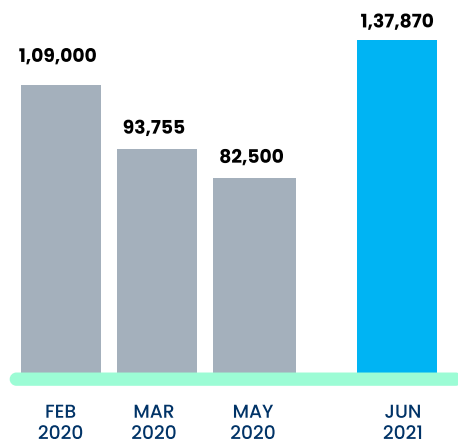


In June 2020, there was a drop of 11% in the number of job openings while in July 2020, the drop rose to 17%.

In February 2020, the number of job openings was at a peak of 1,09,000 which fell to 82,500 jobs in May 2020.

The number rose to **1,37,870 job openings by the end of the second week of June in 2021.** There was a **47.1% increase** in the number of job openings in mid-2021. This was a huge positive factor because the pandemic caused job openings to fall to **93,755 in March 2020** when India went into complete lockdown. Once India started lifting the lockdown, the data science landscape once again moved north, picking up pace at a 67% increase in job openings.

JOB OPENINGS



9.2%

Infact, India showed a 9.2% contribution in June 2021 to the global data science job openings which was a significant jump from the 7.2% in January 2020.



Fast-forward to 2022, the data science landscape has only grown. While the second wave of covid-19 did deter the pace for a while, India gained momentum in the data science job domain steadily after that.

By end of the second week of April, India reported the second-highest number of jobs at 1,79,470 job openings. **The highest number was recorded in February 2022 at 1,80,468 job openings.**



The data science job market has plunged by 20.1% during the Covid-19 surge [March 2020 – June 2020]. However, India rebounded drastically with a 73.5% increase in the number of job openings.



March 2020 – June 2020
20.1% Decrease



2020 – 2022
73.5% Increase

What Led To This Drastic Rebound For India?

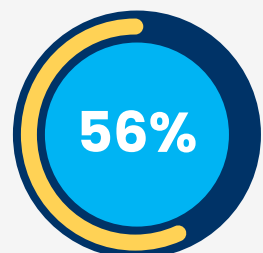
While the world went into a frenzy due to the pandemic, it simultaneously became more digital than ever. Every aspect of the world was becoming contactless – the most prominent one being payments and transactions. Even the smallest vendor started using UPI-based payment apps like Google Pay, PayTM, and PhonePe.

Covid-19 also paved way for a rise in online shopping.

Thanks to the internet penetration to tier 1,2, and 3 cities, online transactions increased manifold times. Major brands started focusing more on online consumer experiences. This led to generating of a huge amount of data. Companies, obviously, needed professionals to handle this data and make sense of it. As the world was undergoing a seismic shift in the way they shopped and transactions were done, it was important to understand consumer behavior more than ever. This reflected prominently as the **demand for skilled data scientists increased by 56% by the end of the first quarter of 2020.** By 2021, engineering and data scientists became the top job roles with the highest recruitment activities in India.



DEMAND FOR SKILLED DATA SCIENTISTS INCREASED BY





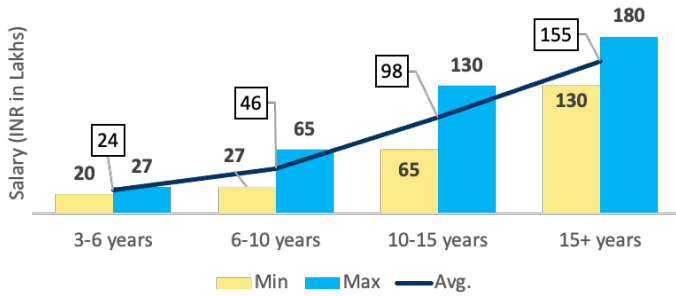
SALARY TRENDS

For Data Science Job Roles In India

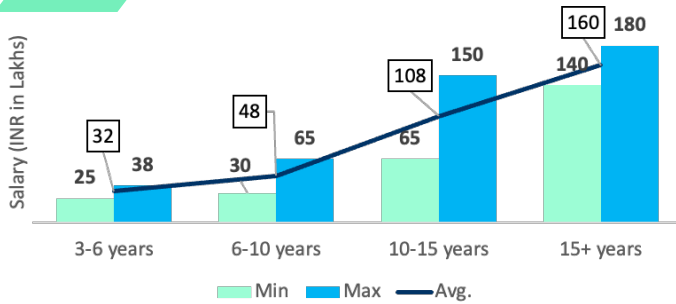
TIER 1

Represents MNCs, eCommerce, product companies, management consultants, and internet companies.

2019



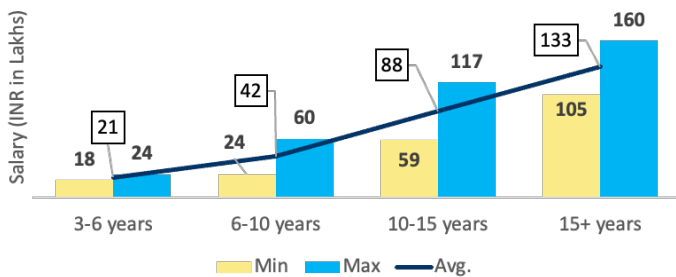
2022



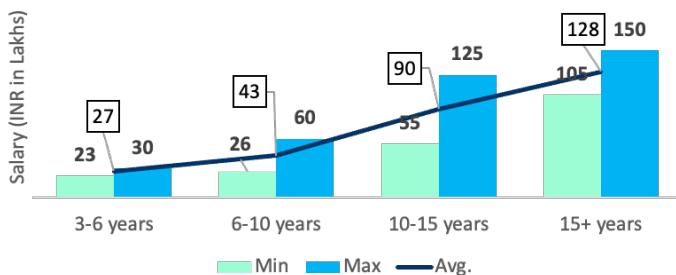
TIER 2

Represents early startups, domestic financial institutions, and third-party consultancies.

2019



2022



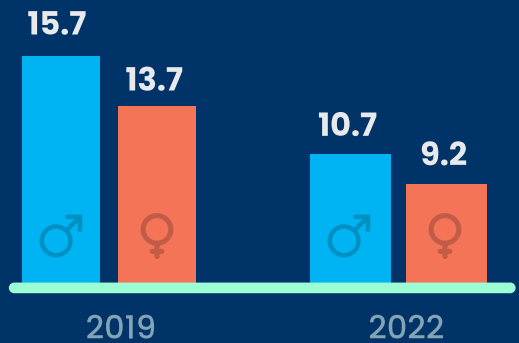
KEY FINDINGS

- In Tier 1, the average median salary for beginners increased by a whopping 33% from 2019 to 2022. In Tier 2, the same range saw a 28.57% increase in the average salary.
- For more experienced professionals, the salary bracket in Tier 2 went down by 3.76% from 2019 to 2022. In Tier 1, the salary for highly experienced professionals increased by only 3.2%, the least amongst all experience brackets.
- Maximum increase in salary is for less experienced professionals.
- The overall increase in salary brackets is better in Tier 1 companies than the Tier 2.

SALARY TRENDS:

- Salary increment of 20–25% noticed when switching jobs in the same industry for similar functions in 2019.
- Salary increment for data science roles in 2022 remained between 20–30%.
- In general, surveys show men earn more in data science job roles than their counterparts:

SALARY BY GENDER (INR IN LAKHS)





SALARY TRENDS

For Other Data Science-Related Roles

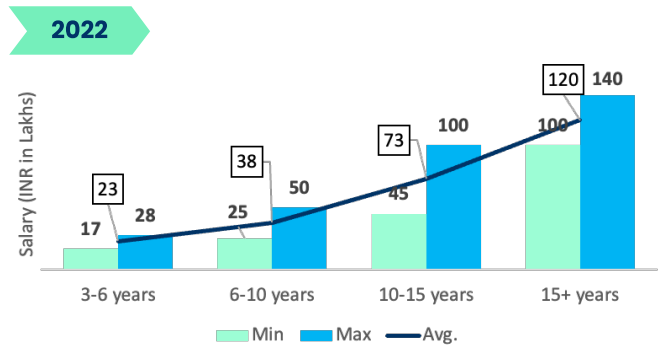
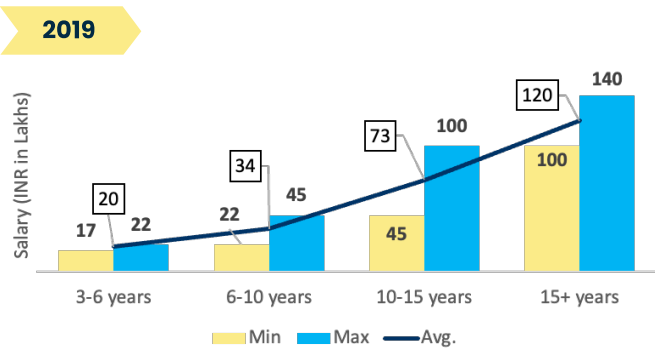
Marketing Analytics

Marketing analytics is a broader term that includes almost all types of analytics roles. The trends for marketing analytics roles can be correlated to the current job trends for most data science or data analytics roles. Salary trends for marketing analytics roles evolved from 2019 to the present date indicating a shift in salary trends post the pandemic



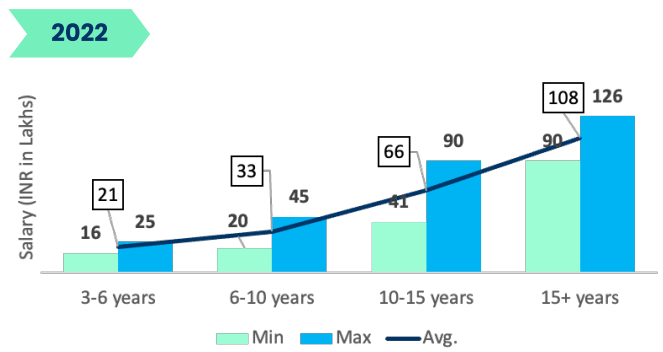
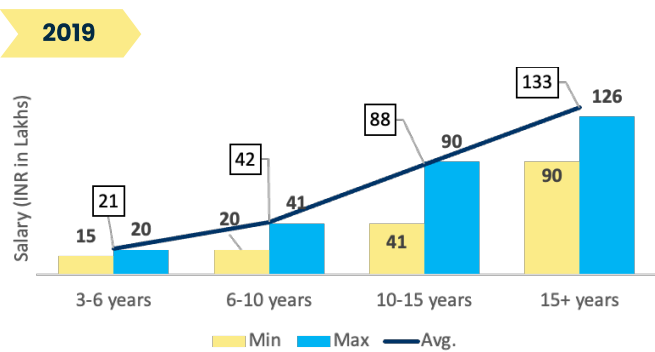
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TIER 2

Represents early startups, domestic financial institutions, and third-party consultancies.





SALARY TRENDS

For Other Data Science-Related Roles

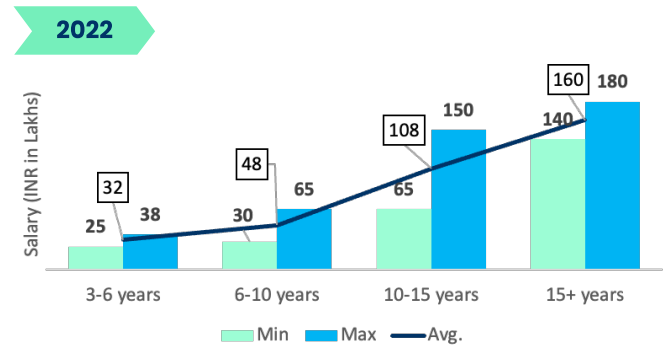
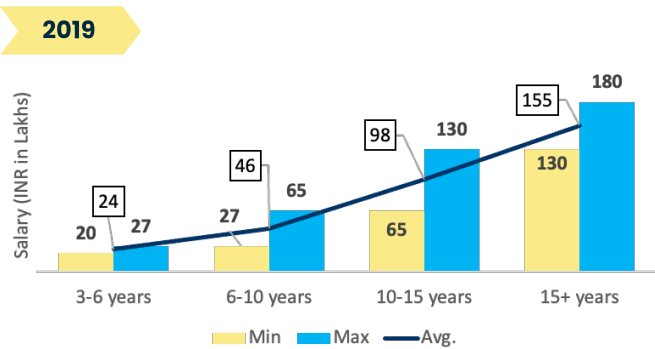
Risk Analytics

Marketing analytics encompass almost all kinds of data science-related job roles. Other roles like risk analytics can be termed as a more domain-specific job roles. Salary trends for risk analytics job roles are as follows:



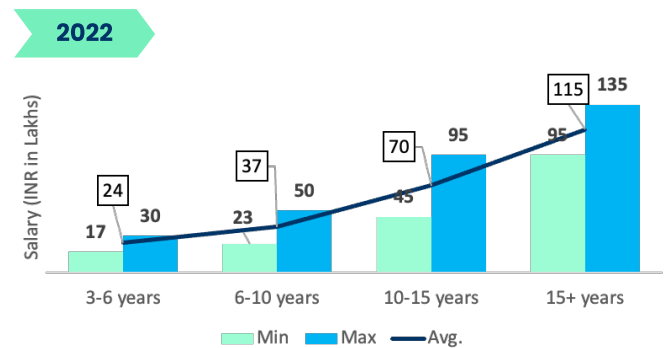
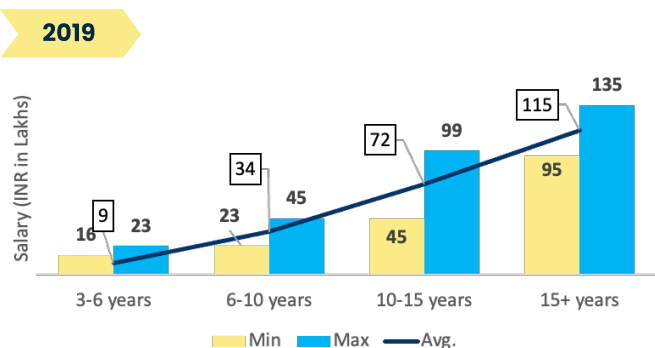
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TIER 2

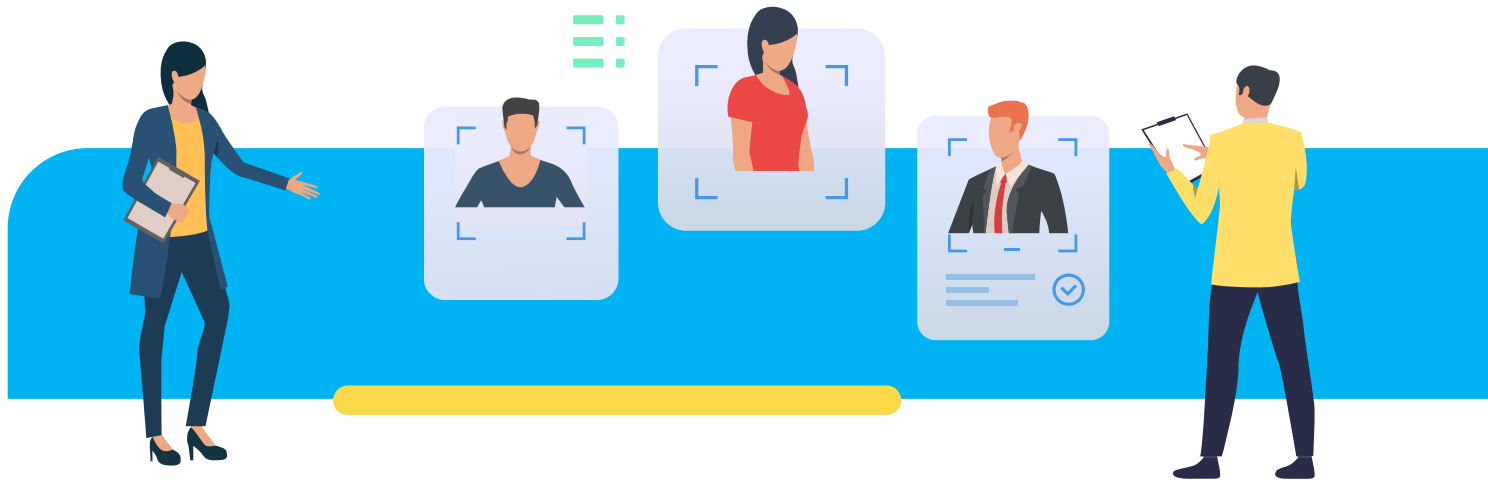
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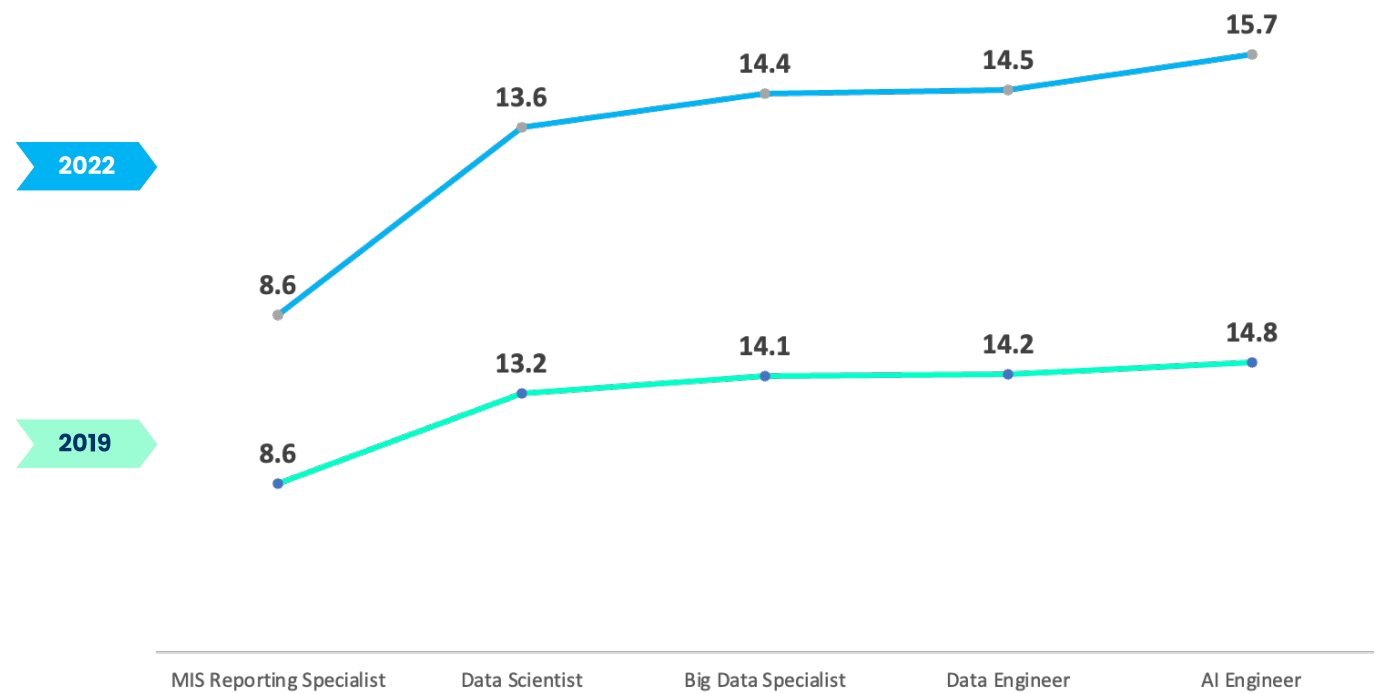
SALARY TRENDS

Salary Trends For Other Prominent Data Science Roles:



Salary By Job Roles

[INR In Lakhs]



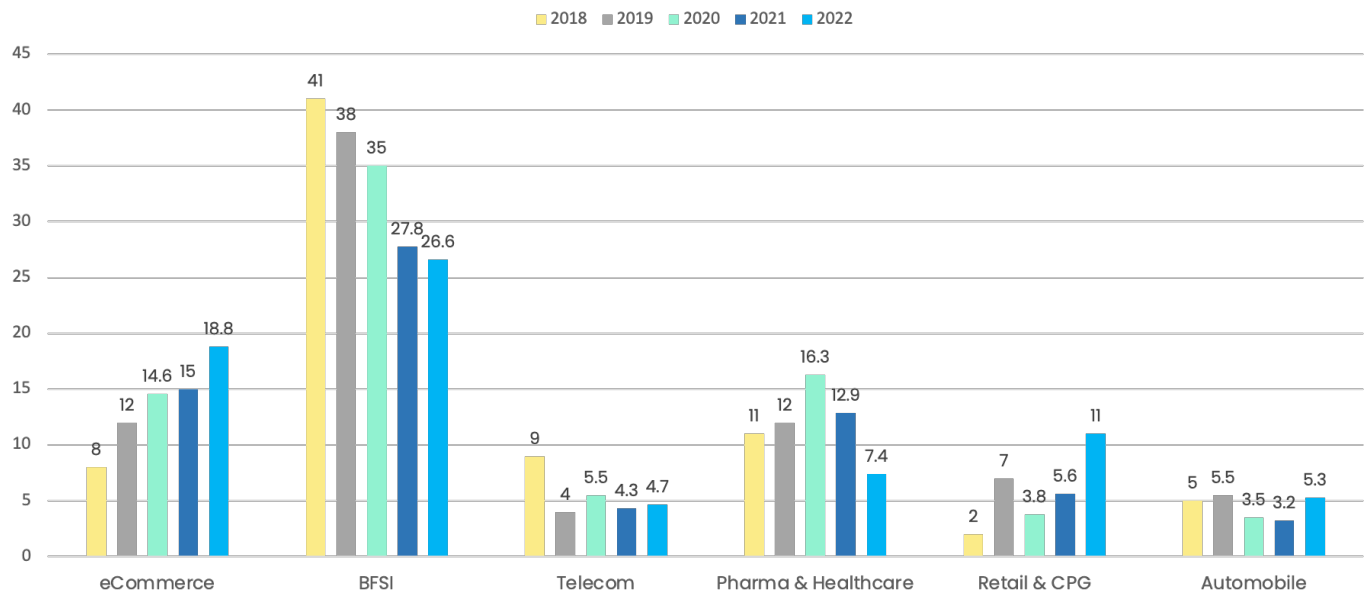


DATA SCIENCE JOBS BY SECTOR

Covid-19 caused major shifts in various sectors, the most prominent being eCommerce and pharmaceuticals. These are the two industries that faced maximum upheaval in the pandemic era. While eCommerce kept on rising high, thanks to the shift in how consumers shopped, pharmaceutical companies saw a major rush during the pandemic. Once vaccines came in and life began at a normal pace, the surge started dipping.

PERCENTAGE OF DATA SCIENCE JOB OPENINGS ACROSS VARIOUS SECTORS: 2018 -2022

[ALL DATA ARE RECORDED IN THE MONTH OF AUGUST IN RESPECTIVE YEARS]



KEY HIGHLIGHTS:

- eCommerce saw a major increase in the number of jobs for data science since 2018. Covid-19 pushed brands to online selling because of the huge shift in the way consumers shopped. This also led to new eCommerce ventures rising up steadily, leading to the need for skilled data professionals.
- The BFSI sector saw a dip in the number of job openings from 2018 to 2022. The highest was in 2018. After that, there has been a major dip while the consistency fairly remained for the last two years.
- Retail and CPG saw growth in the number of jobs, recording 11% job openings until August 2022.
- Covid-19 caused major competition in the pharma and healthcare industry as the sector faced the maximum demand ever during this time. In 2020, just after covid had hit the world, data science jobs rose to 16.3% in 2022 from 12% in 2019. However, as lockdowns were lifted and life started to get back to normalcy, the number dipped to 7.4% in August 2022.

SALARY TRENDS:

MEDIAN SALARY FOR DATA SCIENCE JOBS [INR IN LAKHS]

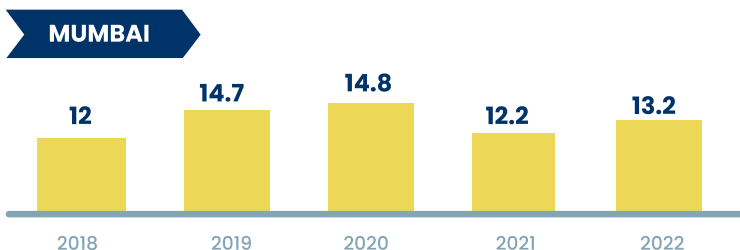
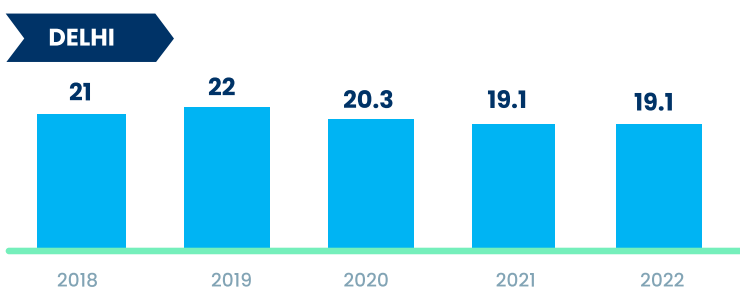
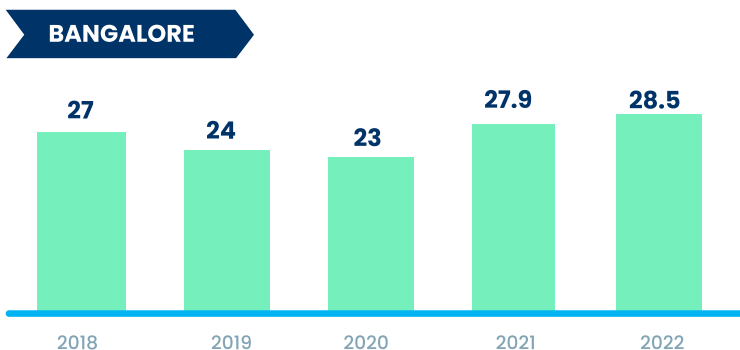




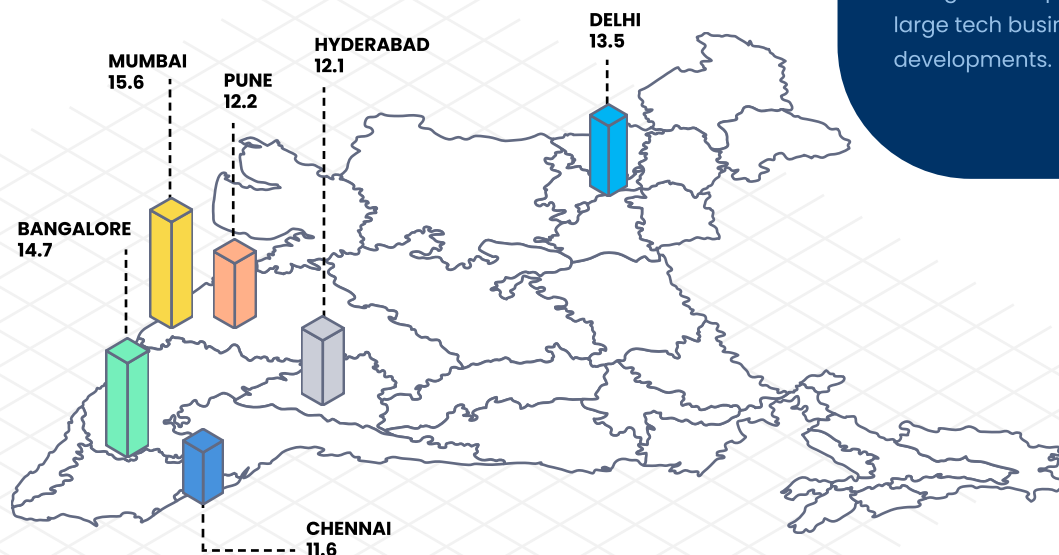
DATA SCIENCE JOBS BY CITIES



Percentage of Data Science Jobs in Top 3 Cities in India



MEDIAN SALARY RECORDED IN 2020: FOR DATA SCIENCE JOBS BY CITIES [INR IN LAKHS]



KEY FINDINGS

Bangalore

Bangalore continues to rule as the top city in India for data science jobs. This is because Bangalore is home to a maximum number of analytics startups that have reportedly received the highest amount of funding in the last three consecutive years. Add to this, a majority of companies run their technology, IT, and Boutique analytics in this city, making Bangalore a hub for data scientists.

Delhi NCR

Next in line is the capital of India. Delhi NCR closely follows suit. However, there has been a dip since 2018 indicating a change in the choice of location for aspiring data scientists. However, Delhi still has a high number of data science job openings. In 2021, there were 26,339 jobs while in 2022, there were 34,200 jobs. This increase in share is facilitated by the fact that people are now returning to work at a faster rate in Delhi than in other cities.

Mumbai

Mumbai stands third with a 28.68% increase in the number of jobs from 2021 to 2022. This increase is facilitated by the high demand in the BFSI sector in Mumbai.

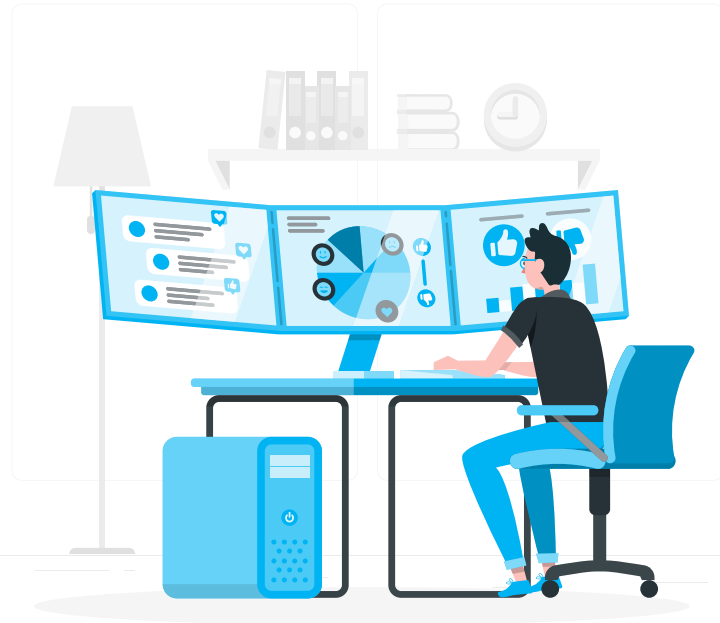
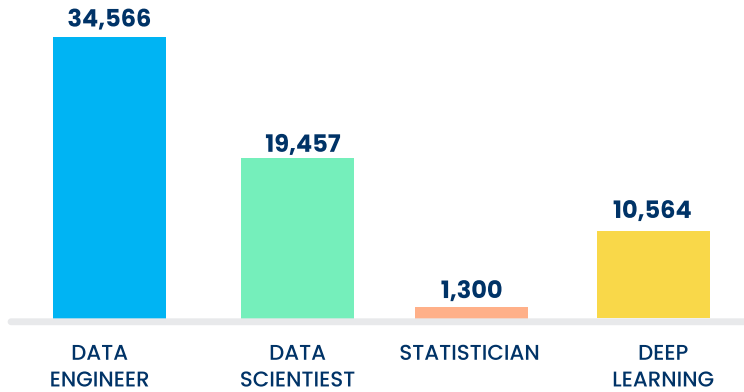
Hyderabad

Hyderabad saw a 42.9% growth from 2021 to 2022 owing to cheaper workspace, skilled workforce, large tech businesses, and maximum initiative in AI developments.



TOOLS TO LEARN FOR A DATA SCIENCE JOB

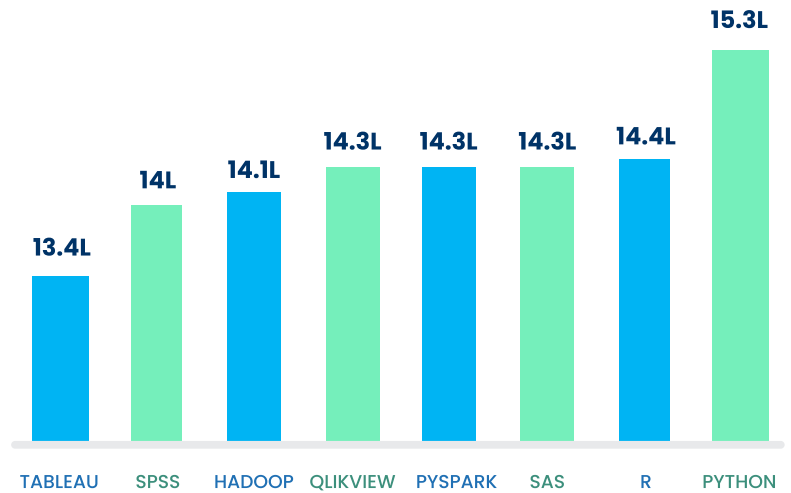
Data science is a broad function that encompasses several job roles, each role requiring specific tool knowledge. In 2022, Business Analyst is the top role in the market with around 38,974 job openings. Other roles include



Companies are looking for data science professionals with specialization in the following tools:

SAS	TABLEAU
PYTHON	R ANALYTICS
MICROSOFT EXCEL	APACHE SPARK
POWER BI	APACHE HADOOP

Salary Trends According To Tools In 2022 Are As Follows:



Data Science Job Predictions: Looking beyond 2022

- Data Science job openings will increase to 7,00,000 in 2022 alone.
- Data Science job postings are open for 45 days which is 5 days more than other job roles.
- There will be 11.5 million jobs around the world by 2026.





WHERE TO START LEARNING DATA SCIENCE?

Data Science requires you to have knowledge of statistics, mathematics, and computer science. However, non-technical professionals can easily venture into data science by acquiring these pre-requisites.

According to Naukri.com, the following skills are required for profiles in Data Science:

PROFILE	SKILLS
DATA ARCHITECT	Data Modelling, Applied Math and Statistics, Design Skills, Machine Learning, Databases, and Cloud Architecture
CORE DATA SCIENTIST	Python, Java, SQL, Statistical modeling, Data Manipulation and Analysis, Machine Learning, Deep Learning, Big Data
DATA ANALYST	SQL, R or Python-Statistical Programming, MS Excel, Tableau, Data Visualization, Presentation Skills, Statistics



Almost 59% students acquire data science skills through certified online courses.

These courses are easy to enroll in and offer a self-paced learning mode that helps not just students but also professionals who are looking to upskill.

Your ideal starting point is AnalytixLabs, one of the premium institutes for Data Science and related concepts in India. AnalytixLabs is a pioneer in launching a Data Science course in Delhi and a similar curriculum for Business Analytics in Bangalore.

The Data Science 360 course curriculum is certified and approved by NASSCOM and the Ministry of Electronics and Information Technology.

AnalytixLabs partners with IBM to offer dual certificates, helping professionals get the best out of their learning. As an institute committed to shaping the best kinds of data scientists, we offer a 6-months job guarantee program – we guarantee placement within 6 months of course completion or a 100% refund of the tuition fees.

Choose Your Preferred Mode Of Learning:



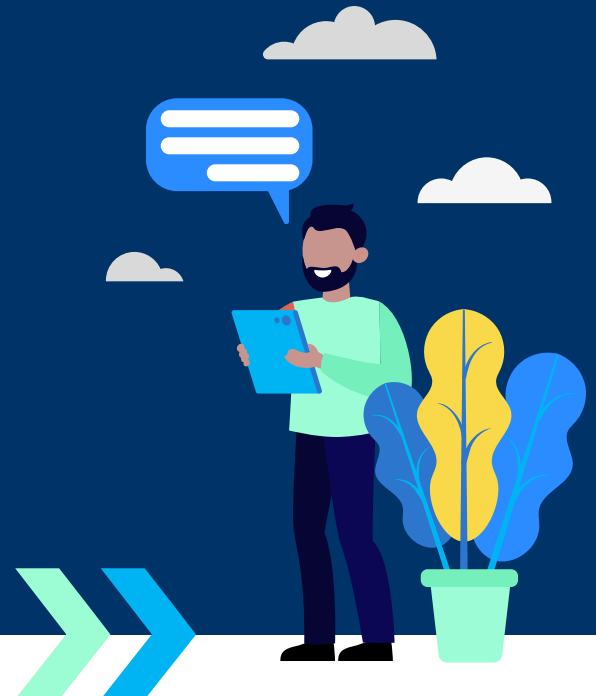
Interactive Classroom
(online/offline)



Self-paced blended eLearning

Launch your data science career now, or talk to us for more details and guidance.

Visit: analytixlabs.co.in/courses for more details.




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2nd Floor, Sidhartha House,
Building No. 6, Sector 44,
Gurugram, Haryana 122003, (600
meters from HUDA City Metro)

BANGALORE

Bldg 51/2, First floor 12th Main
Road, Near BDA complex Sector
6, HSR Layout Back Gate of BDA
Complex, Opp A2B (Adayar
Ananda Bhavan) Bangalore,
Karnataka 560102

NOIDA

FF, A, 78, Metro Gate 3, A
Block, Sector 2, Noida, Uttar
Pradesh 201301