



BY EDVANCER & ANALYTICS INDIA MAGAZINE

ANALYTICS & DATA SCIENCE JOBS IN INDIA- STUDY 2018

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INTRODUCTION

Analytics jobs scenario in India is constantly evolving. Companies are looking to hire professionals who are well-versed with new tech concepts such as analytics, big data, data science, artificial intelligence and machine learning, among others. While there may be a huge variation in the skills sets, experience and education requirement for these professionals across various cities and industries, there is a constant rise in the overall demand for analytics professionals with new jobs being posted each day.

This year's Analytics And Data Science Jobs Study is brought to you in association with Edvancer, one of India's leading data science skills training institute which offers a wide range of data science training programs for individuals and corporates.

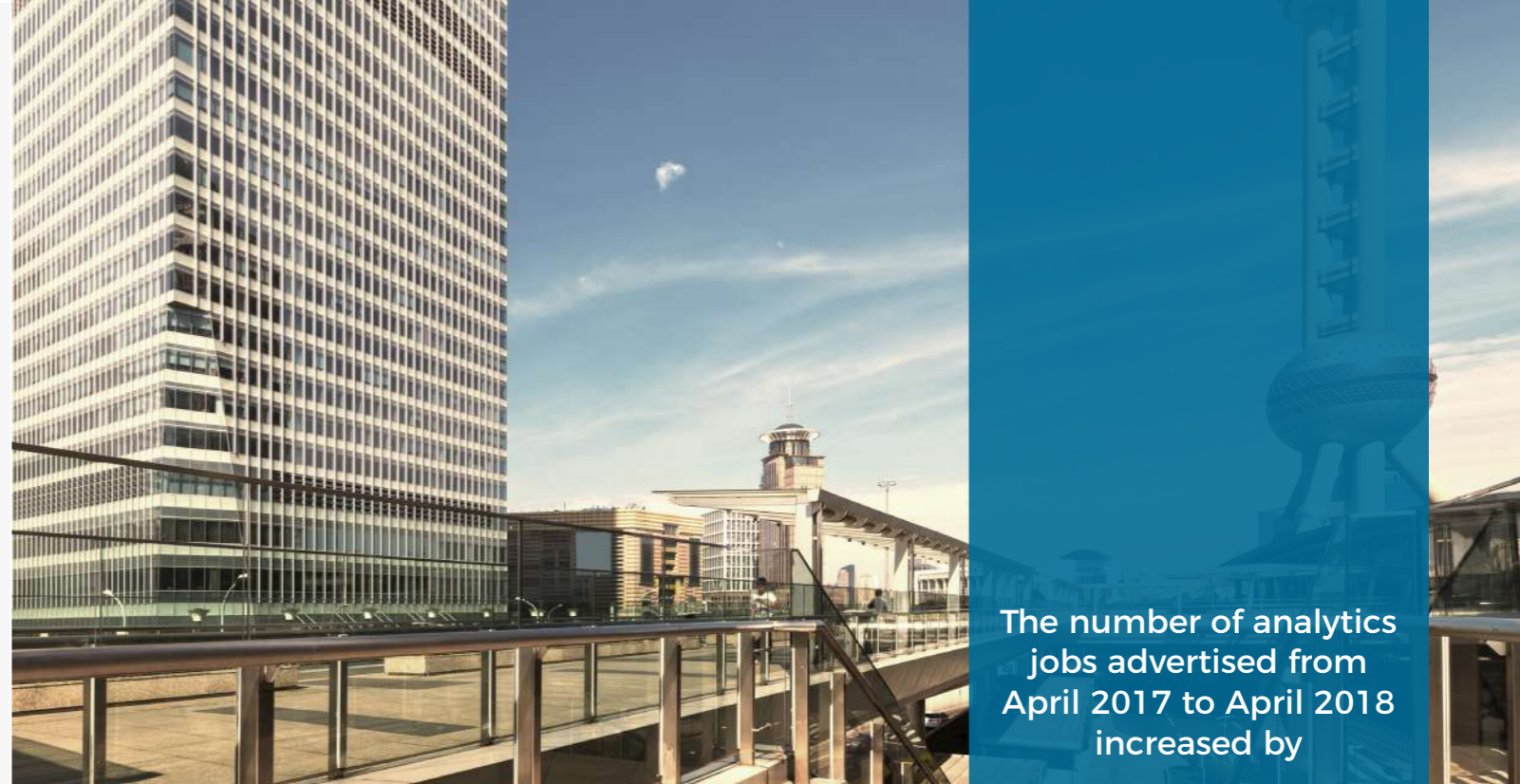
The study takes into consideration various aspects of the job scenario for analytics professionals in India across industries such as retail, telecom and e-commerce, among others. The study also takes a look at various hiring trends over the years, jobs profiles, company types, experience required, educational background, etc.

The study was conducted over a period of five months, which includes extensive primary and secondary research. It is an accumulation of results collected by studying various job portals, getting in touch with the human resources departments of different companies, analytics professionals and other relevant persons in the industry.

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TOP TRENDS IN ANALYTICS JOBS

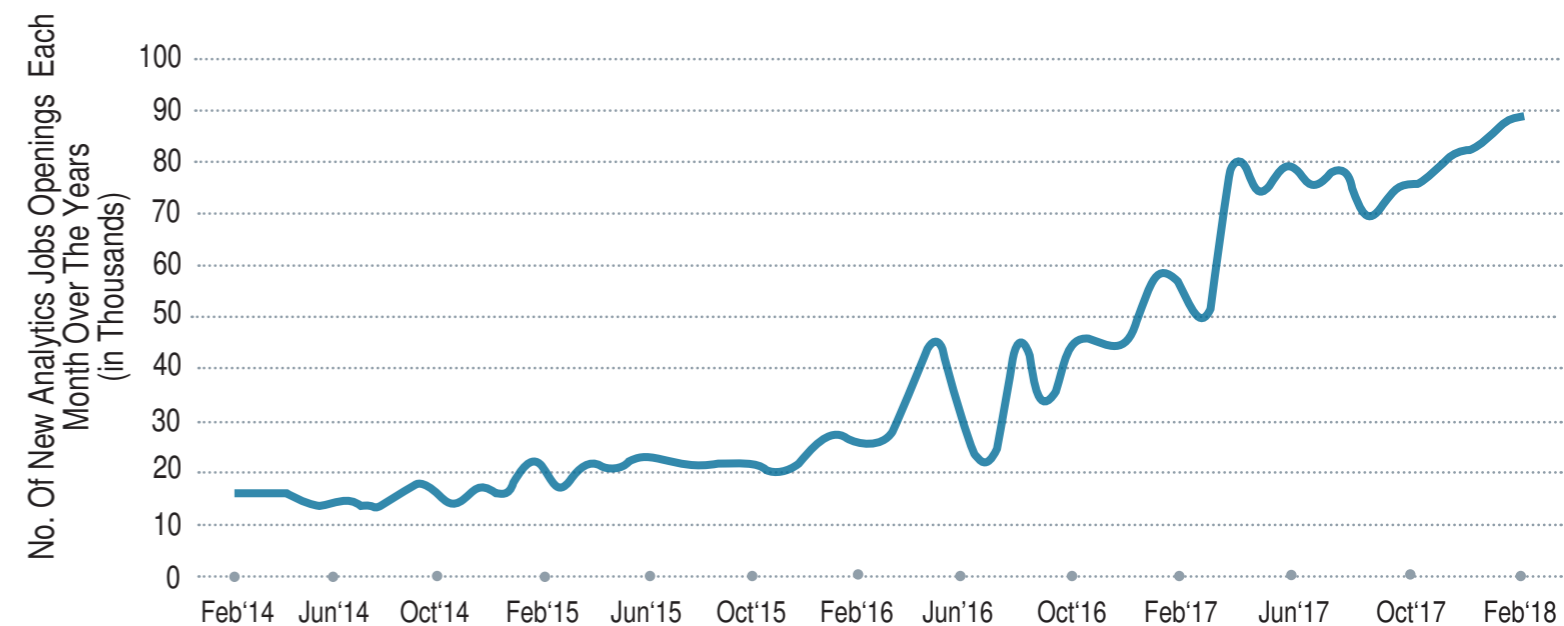
- The number of new analytics jobs advertised per month increased by almost 76% from April 2017 to April 2018.
- The number of new analytics jobs increased by 52% from April 2015 to April 2016, and by 40% from April 2014 to April 2015. It had almost doubled from April 2016 to April 2017.
- We saw a brief dip in the job requirements from August to September 2017. Post that, the number of analytics jobs advertised have been on a constant rise.
- While, it is difficult to ascertain the exact number of open analytics job openings; according to our estimates, close to 78,000 positions related to analytics are currently available to be filled in India. Open analytics jobs is a different metric than new jobs advertised per month.
- This is almost 57% jump in the open job requirements, compared to the same time a year back.
- Compared to worldwide estimates, India contributes 10% of open job openings currently. Growth in the number of data science jobs globally was much higher than India.
- Last year India contributed 12% of worldwide open job requirements which has decreased to 10% this year.
- 10 leading organizations with the most number of analytics openings this year are – *JPMorgan, Accenture, Microsoft, Adobe, Flipkart, AIG, Ernst & Young, Wipro, Vodafone & Deloitte.*
- Almost 98% of analytics jobs advertised in India are of full-time basis. Just 2% form the part-time, internship or contractual jobs.
- Top designations advertised are: *Analytics Manager, Business Analyst, Research Analyst, Data Analyst, SAS Analyst, Analytics Consultant & Statistical Analyst, Data Scientist.*



The number of analytics jobs advertised from April 2017 to April 2018 increased by

76%

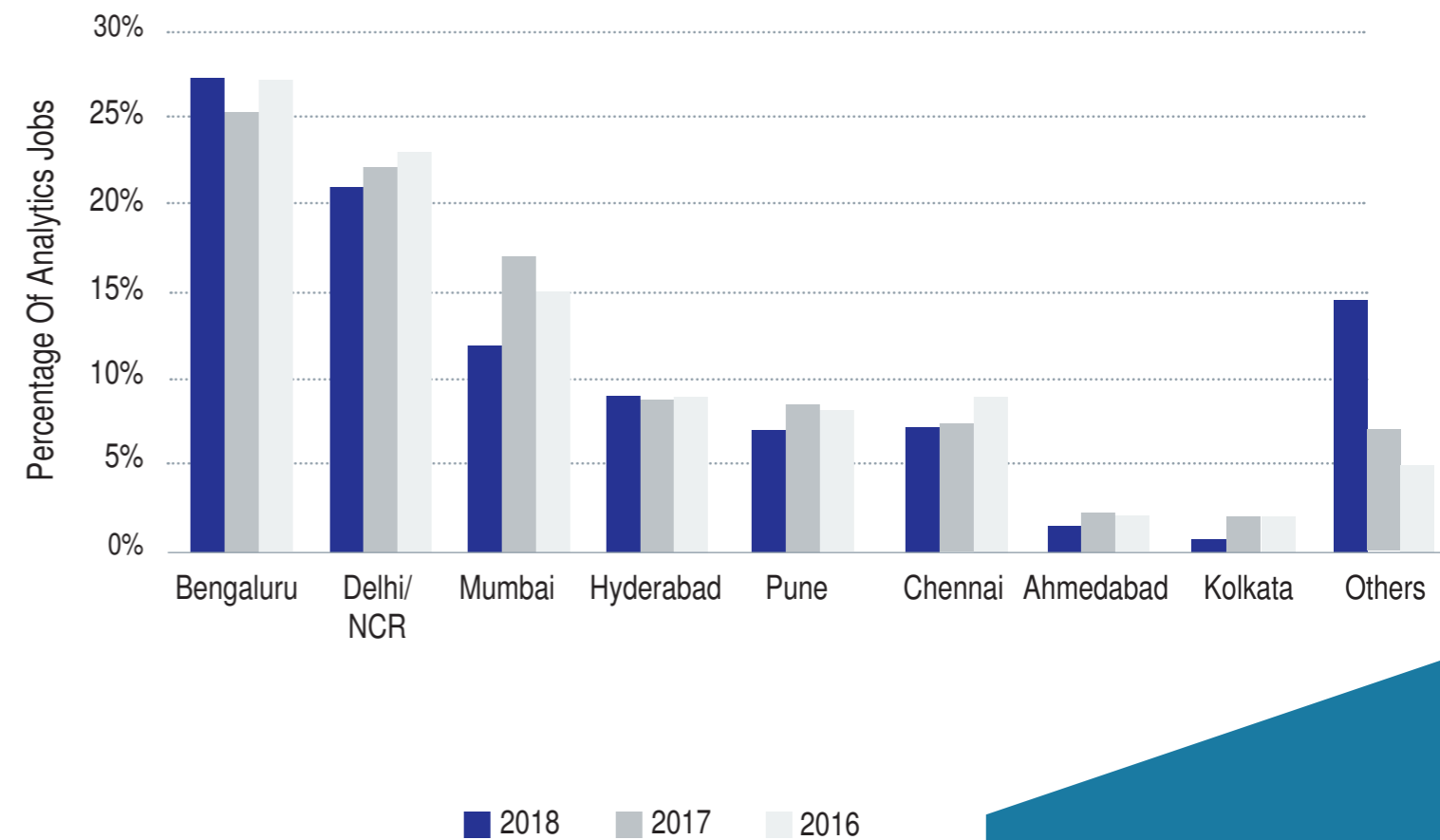
GRAPH: NEW ANALYTICS JOBS ADVERTISED PER MONTH



ANALYTICS JOBS BY CITIES

- In terms of cities, Bengaluru accounts for around 27% of analytics jobs in India. This is an increase from 25% a year ago.
- Delhi/ NCR comes second contributing 21% analytics jobs in India, down slightly from 22% a year ago.
- Approximately 12% of analytics jobs are from Mumbai. This is significantly down from 17%, last year.
- The contribution of Tier-B cities in analytics jobs continues to increase this year, from 5% in 2016 to 7% in 2017 to 14% this year due to the increased number of start-ups operating in Tier 2 cities.

GRAPH: PERCENTAGE OF ANALYTICS JOBS ACROSS CITIES



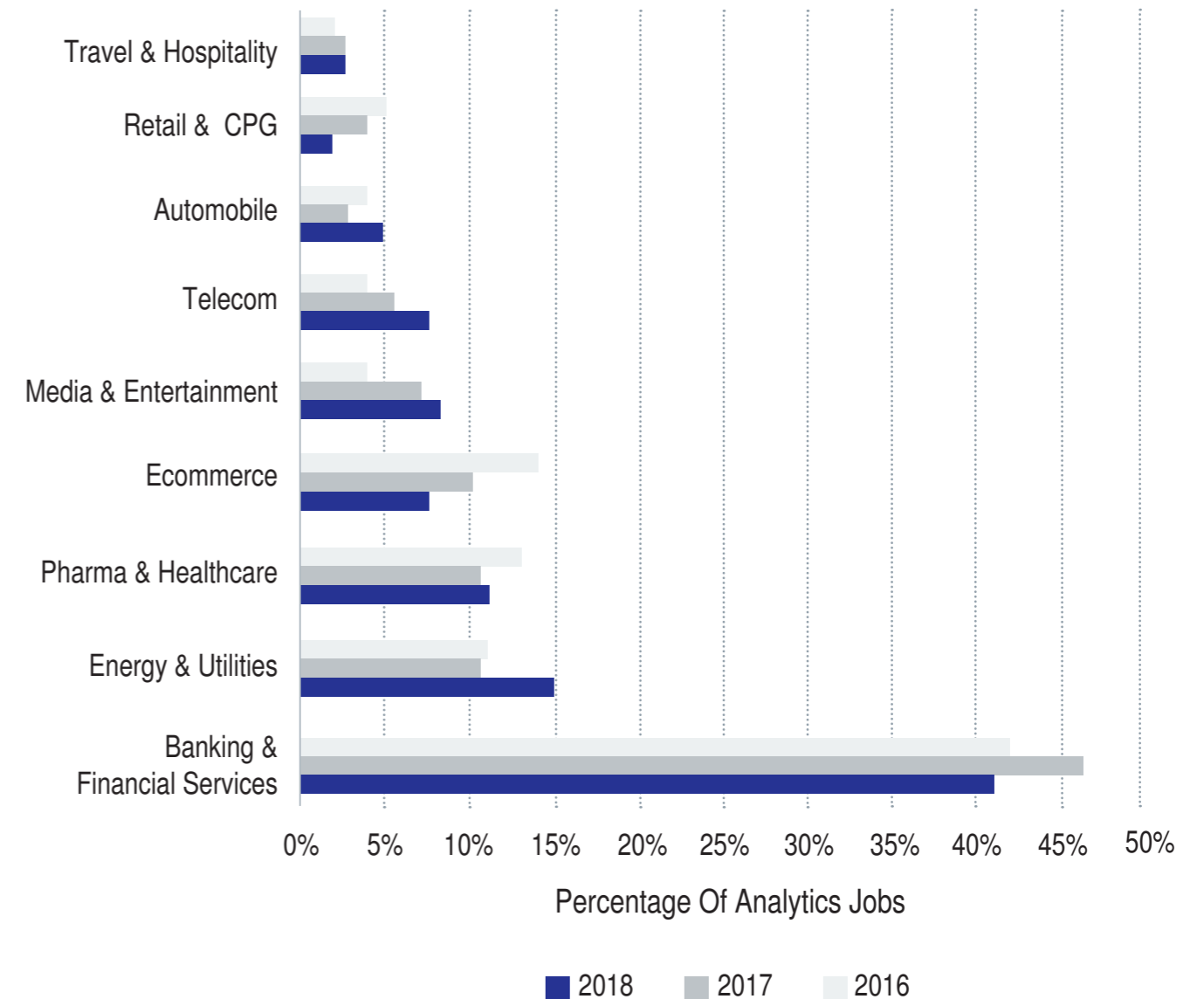
Bengaluru accounts for the highest number of analytics jobs at

27%

ANALYTICS JOBS BY INDUSTRY

- Banking & financial sector continues to be the biggest influencer in analytics job market. 41% of all jobs posted for analytics were from the banking sector. This is a decrease from 46% a year ago.
- E-commerce continues to dip in terms of analytics jobs this year. Just 8% of analytics jobs were in e-commerce sector as opposed to 10% in 2017 and 14% in 2016.
- Energy & utilities sector seems to have the highest uptick in analytics jobs this year, contributing to 15% of all analytics jobs as opposed to 11% a year ago. The sector has been traditionally a late adopter of analytics.

GRAPH: PERCENTAGE OF ANALYTICS JOBS ACROSS INDUSTRIES



41%

Of all jobs posted for analytics were from the banking sector.

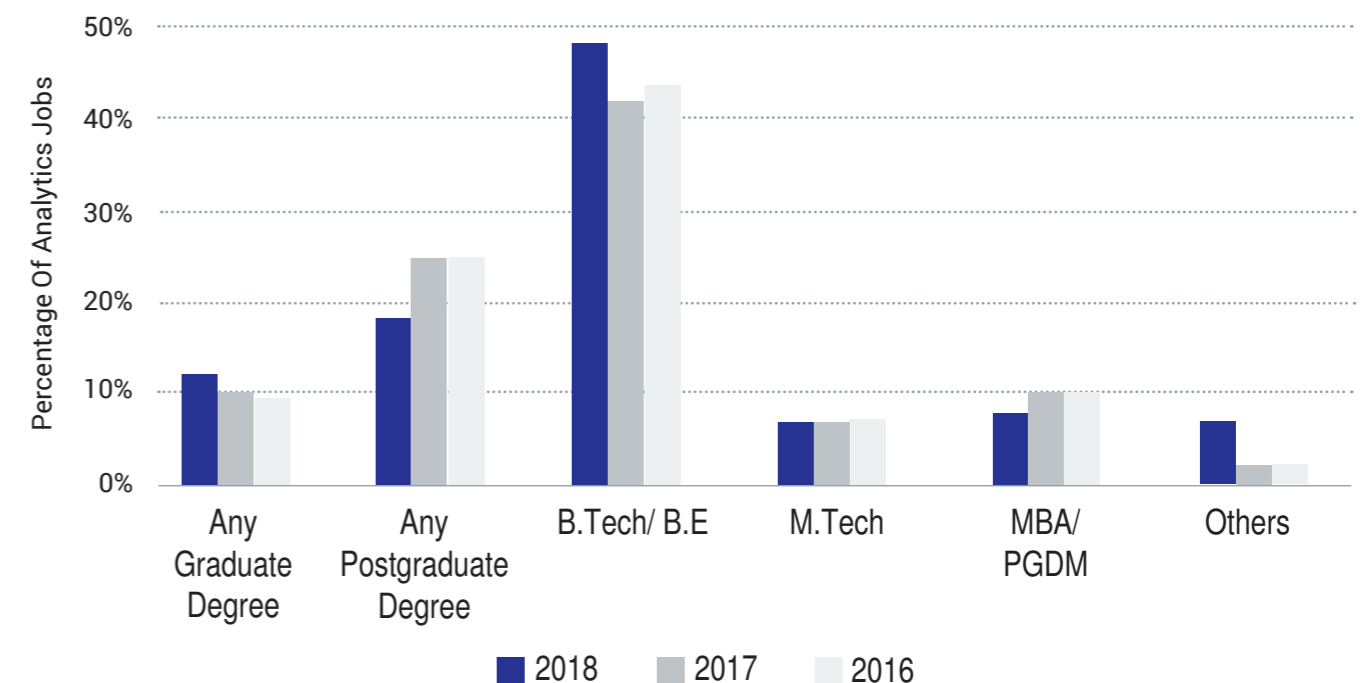
EDUCATION REQUIREMENT BY ANALYTICS JOBS

- Almost 48% of analytics job openings are looking for a B.E./B.Tech graduate degree in the incumbent.
- 18% analytics job openings are looking for a postgraduate degree which are not MBA or M.Tech. This is a decrease from 26% a year ago.
- 8% analytics jobs specifically require an MBA/PGDM degree.
- Just 13% recruiters are looking specifically for graduates with non-BE/ non-B. Tech degrees, up from 10% last year.

48%
of job openings are looking for a B.E./B.Tech graduate



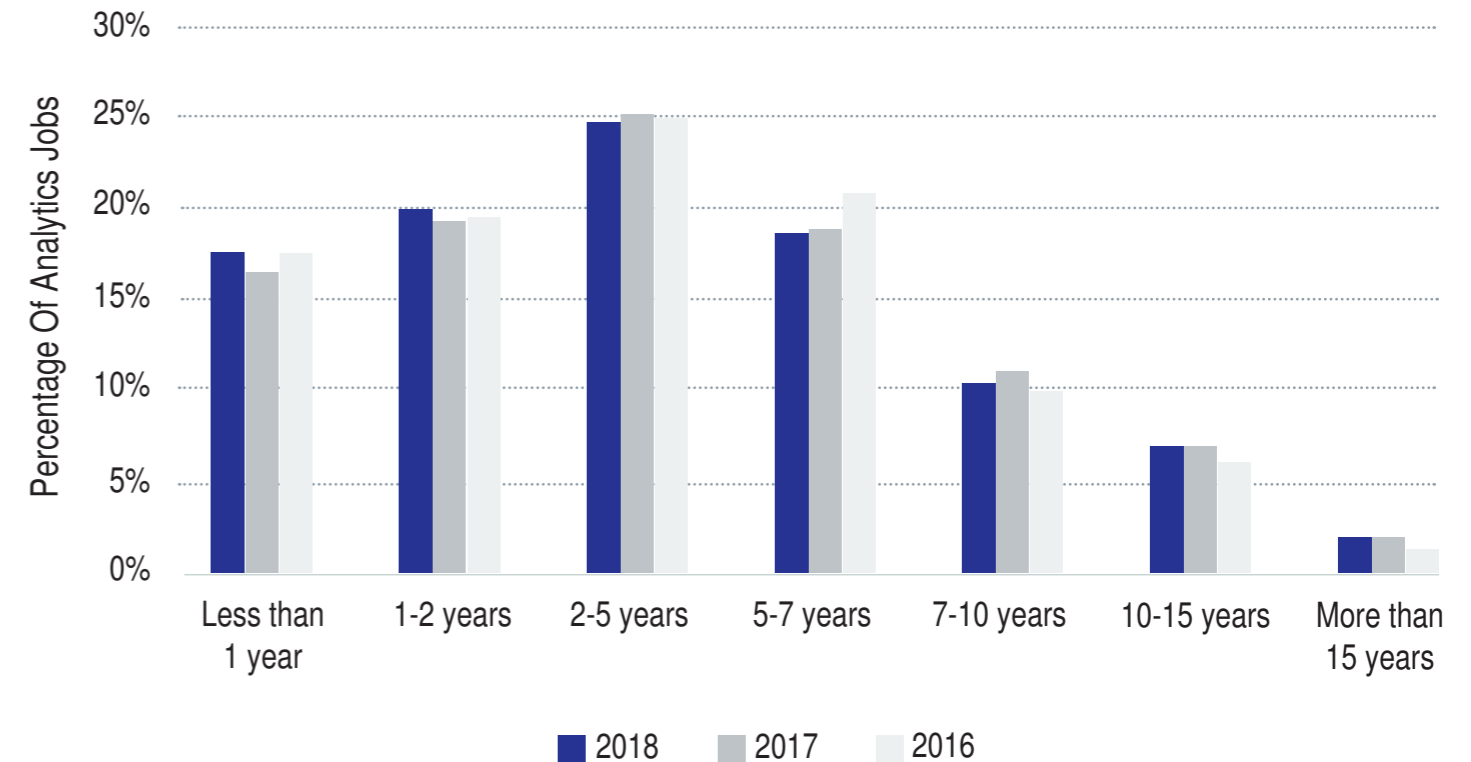
GRAPH: PERCENTAGE OF ANALYTICS JOBS BY EDUCATION



EXPERIENCE REQUIREMENT BY ANALYTICS JOBS

- Around 62% of analytics requirements are looking for candidates with less than 5 years of experience.
- 17% analytics jobs are for freshers.
- 38% analytics job openings are for professionals with more than 5 years of job experience.

GRAPH: PERCENTAGE OF ANALYTICS JOBS BY EXPERIENCE



17%

Analytics jobs are for freshers

ANALYTICS JOBS IN CITIES BY EXPERIENCE LEVEL

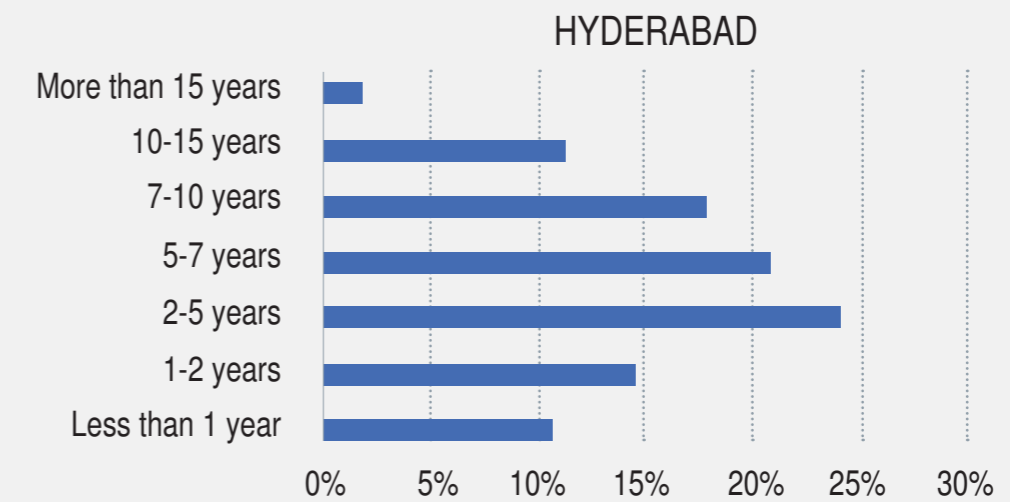
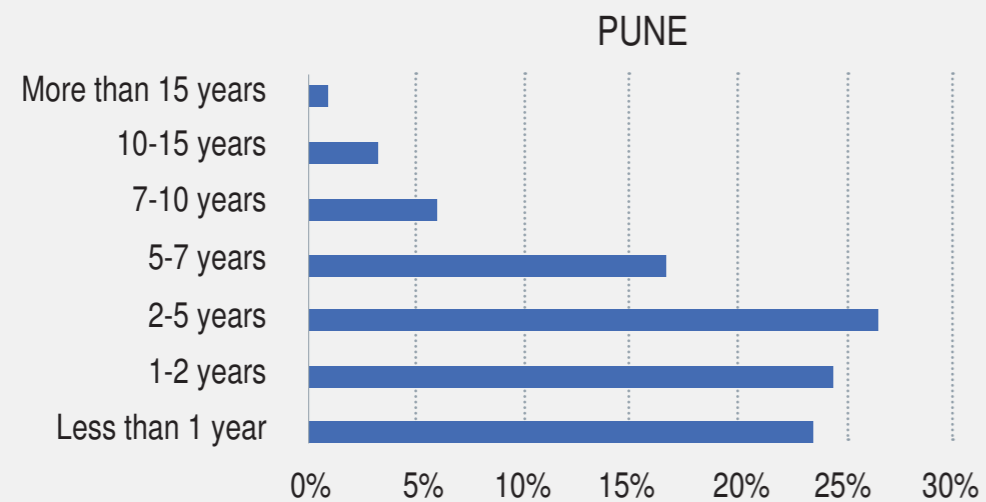
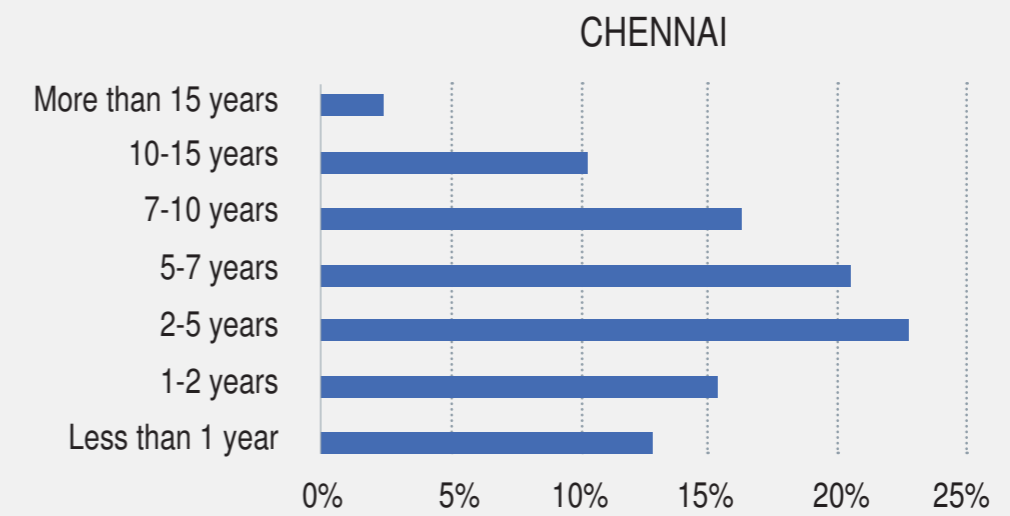
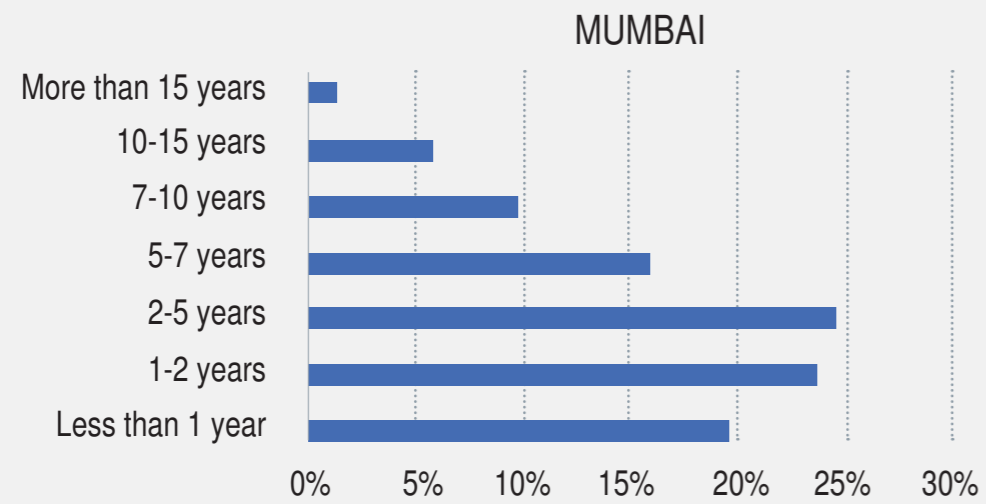
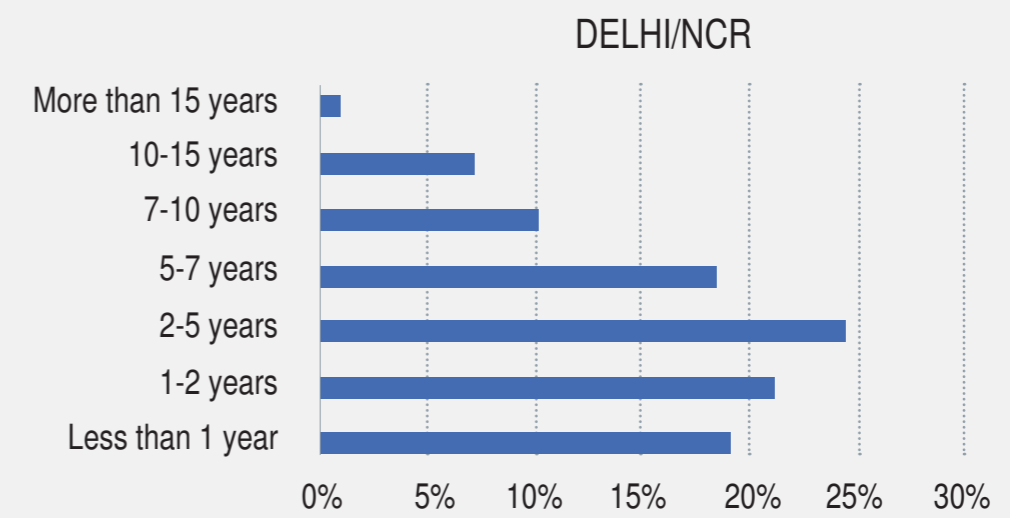
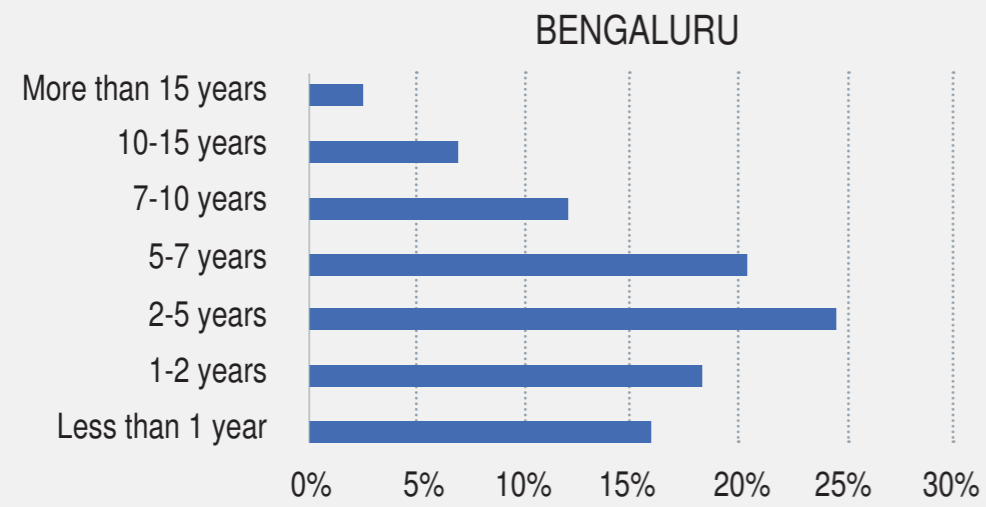
- 2-5 years of experience continues to be the most demanded experience level across all cities, averaging at 24% of job openings.
- The second most in-demand experience level varies significantly with cities. Bengaluru, Hyderabad & Chennai prefer 5-7 years of experience level over 1-2 yrs.
- Mumbai, Pune & Delhi(NCR) demand for more 1-2 years of experience in analytics over 5-7 years.
- Hyderabad & Chennai have the highest demand for senior analytics professionals. 13% of their advertised jobs are for 10+ years experience.
- Pune is most acceptable for analytics freshers. Almost 23% of their advertised job openings are for less than 1-year experience.

Pune
is most acceptable
for analytics freshers



GRAPHS: PERCENTAGE OF ANALYTICS JOBS IN CITIES BY EXPERINCE LEVEL

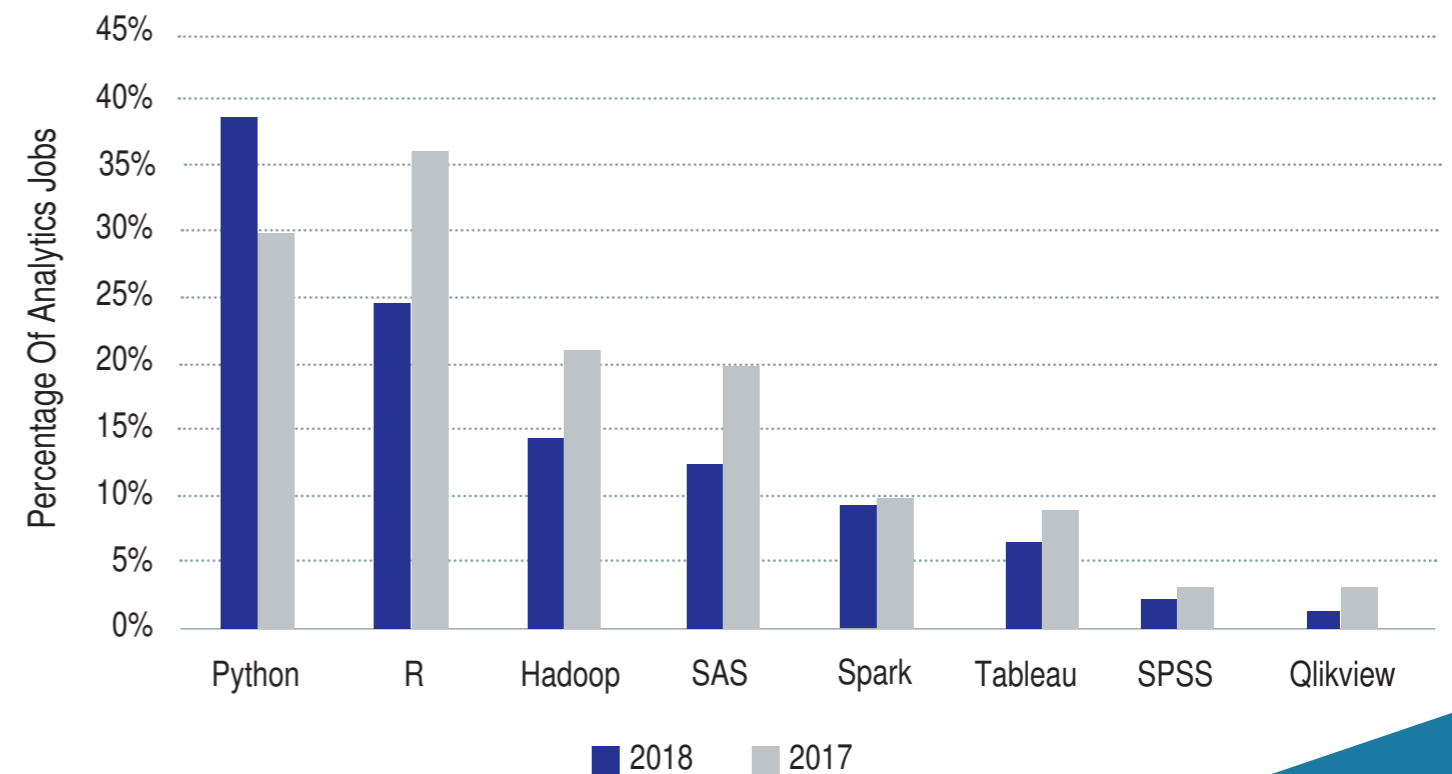
x-axis: Percentage of Analytics Jobs
y-axis: Experience in Years



ANALYTICS JOBS ACROSS TOOLS

- Recruiters are increasingly moving away from technology and tools-based recruiting to skills-based recruitment. More broadly, there has been significant decrease in the jobs advertised for a specific tool.
- Analytics recruiters are becoming aware that unlike IT, analytics requires a combination of skills, and tools are just one aspect of it.
- The demand for Python professionals is the highest among all analytics recruiters. Almost 39% of all advertised analytics jobs in India demand for Python as a core skill.
- Python also saw the biggest jump in analytics requirements this year, replacing R as the most in-demand analytics tool.
- R skills comes second, at 25% of all analytics jobs looking for R professionals. This is decrease from last year of 36%.
- Among visualization tools, Tableau skills are most in-demand.

GRAPH: PERCENTAGE OF ANALYTICS JOBS ACROSS TOOLS



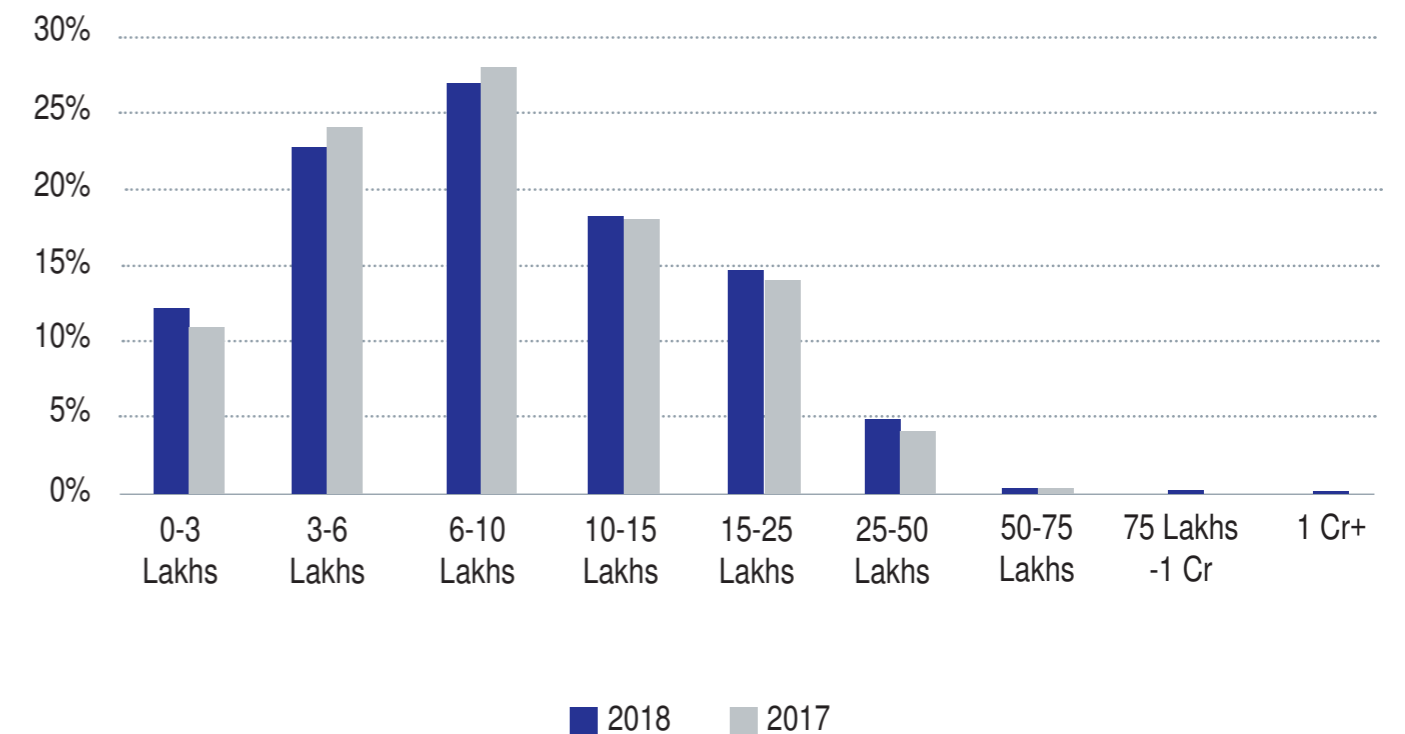
39%

Analytics jobs in India demand for Python as a core skill.

ANALYTICS JOBS BY SALARIES

- The median salaries being offered by advertised analytics jobs in India is INR 10.8 Lakh per annum.
- Advertised salaries tend to be lower than actual salaries. We have earlier reported the median salaries of analytics professionals in India to be INR 12.7 Lakh.
- 27% of all analytics jobs offer a salary range of 6-10 Lakh, followed by 23% for 3-6 Lakh.
- Almost 38% of all advertised analytics jobs in India are offering a salary of more than 10 Lakh.

GRAPH: PERCENTAGE OF ANALYTICS JOBS BY SALARIES



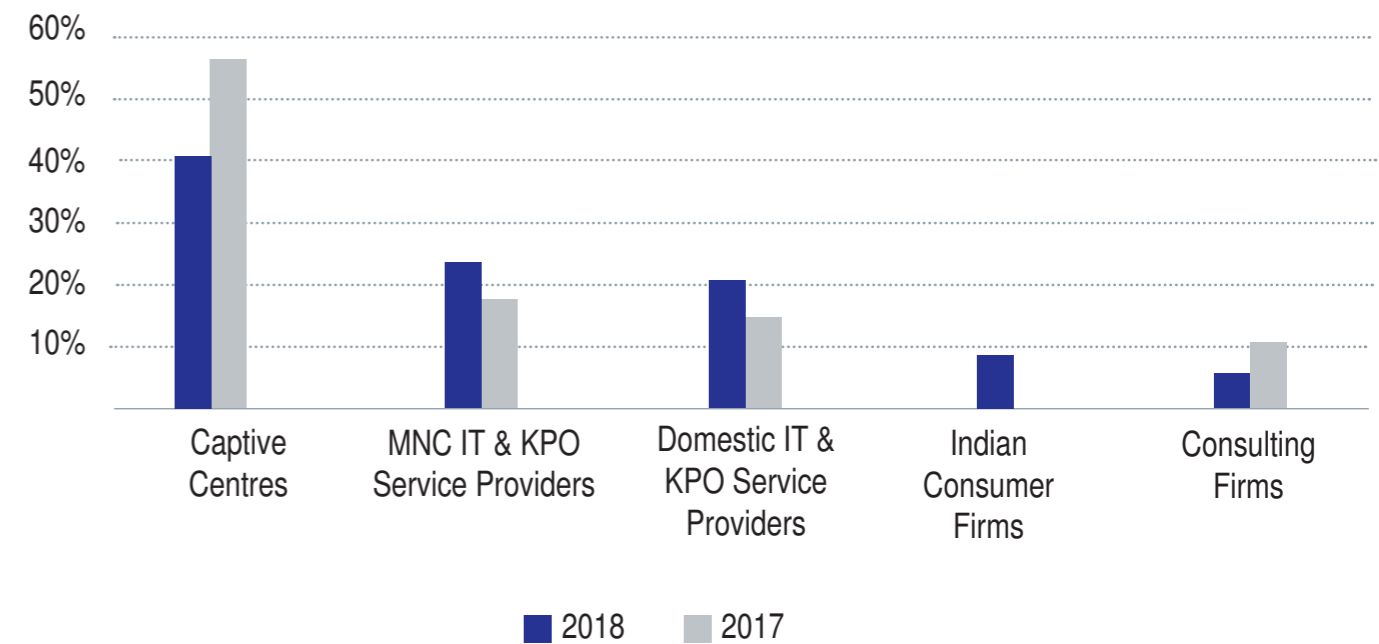
38%

Of all analytics jobs in India are offer a salary of more than 10 Lakh

ANALYTICS JOBS ACROSS COMPANY TYPE

- Almost **41%** of all analytics demand is with Captive centers/ GIC's in India. These are organizations that mostly utilize analytics for internal consumption (for primarily their global businesses).
- This is down from 56% a year back.
- Service providers (both domestic & MNC's) saw an uptick in the analytics jobs requirements this year.
- Almost **24%** of all analytics jobs advertised are by MNC IT & KPO
- **21%** of all analytics jobs advertised are by Domestic IT & KPO service providers, up from 18% a year ago.
- **9%** of analytics jobs advertised are by Indian companies that require analytics for internal consumption. This is a very healthy number signifying growing adoption of analytics and data science with Indian organizations.

GRAPH: PERCENTAGE OF ANALYTICS JOBS ACROSS COMPANY TYPE



41%

Analytics jobs demand is with Captive centers/ GIC's

CONCLUSION

Here's what we believe – academic credentials are important but not necessary for kick-starting careers in data science. Gradually, there will be a need for more self-trained, data-passionate people who will come to play a significant role in many organizations' data science initiatives. The talent gap will be stemmed by professionals who are motivated to bootstrap their skills on the open-source ecosystem and use tools and techniques widely available. Just as data-science platforms and tools are proliferating, the data-

scientist's pool will also grow with self-taught professionals. With a wide collection of open source resources and MOOCs that are brewing a learning revolution, professionals keen on starting a data science career will be able to build a core set of competencies. Also, jobs should feature mentors, as training and investing in growth is essential to improve and build specialties among the team.



RESEARCH METHODOLOGY

This study is a result of extensive primary and secondary research which has been carried out over a period of six months by Analytics India Magazine, in association with Edvancer. It includes consultation with numerous analytics experts, HR professionals, job portals, and companies who have furnished their valuable expertise for the study.

The research methodology included a systematic plan to identify the various factors influencing job scenario around analytics and data science in India. The data was collected by following all the leading job portals in India, interacting with 100+ companies and 1000+ professionals across all major cities in India. The various industries for this study included

retail, FMCG, healthcare, energy & utilities, hospitality, finance, banking, telecom, media etc.

The samples were collected by quizzing the participants on the trends around analytics and data science jobs, the salary structure from fresher's level to the managerial level, cities that offer best opportunities for these jobs, tools and skills that company's demand, analytics jobs across company type and much more.

After a careful collection of information and data, they were classified, counted and distributed to reach the conclusions as depicted in the study.



ABOUT ANALYTICS INDIA MAGAZINE

Founded in 2012, Analytics India Magazine has since been dedicated to passionately championing and promoting the analytics ecosystem in India. It chronicles the technological progress in the space of analytics, artificial intelligence, data science, big data by highlighting the innovations, players in the field, challenges shaping the future, through the promotion and discussion of ideas and thoughts by smart, ardent, , action-oriented individuals who want to change the world.

Analytics India Magazine has been a pre-eminent source of news, information and analysis

for the Indian analytics ecosystem by covering opinions, analysis and insights on the key breakthroughs and developments in data-driven technologies as well as highlighting how they are being leveraged for future impact.

With a dedicated editorial staff and a network of more than 250 expert contributors, AIM's stories are targeted at futurists, AI researchers, Data science entrepreneurs, analytics aficionados and technophiles.

ABOUT EDVANCER EDUVENTURE

Edvancer is India's leading data science skills training institute. An IIM-IIT alumni venture, it was setup with a mission to make India's youth employable in the services sector by providing them job specific skill-sets through industry oriented education & training.

Their industry recognized courses in data science have been taken by over 5000 professionals and students who have gone on to build competencies in data science and work in this fast-growing field. Edvancer also delivers data science training programs to over 50+ corporate partners including leading companies like PwC, EY, Deloitte, GE, Genpact, HDFC Bank, Colgate Palmolive, L&T Technology Services, Cognizant, TCS etc. Till date Edvancer has delivered over 500,000 hours of learning.

Edvancer's programs in data science, machine learning, predictive analytics & big data are focused on:

- **Hands-on practical learning:** Through its programs it gets trainees to work on multiple real world case studies and projects helping them create a job-ready profile.
- **Industry oriented learning through industry experts:** All

of Edvancer's faculty are data scientists with years of work experience in various leading companies. This ensures that their students get updated, industry relevant learning which helps them crack interviews.

- **Generating a high ROI for learners:** They provide short-term modular courses which are specific to the needs of the trainee's immediate career goals keeping the time and monetary investment limited and ensuring that a high ROI is generated.
- **Anytime, Anywhere learning:** Learning at Edvancer is not restricted to any particular time slots or location. They provide anytime, anywhere learning through their online programs which means a person can start learning the moment they feel the need for it. Also they provide lifetime access to their courses so that a student can always come back for revisiting any concepts.

Edvancer's alumni are placed in Cognizant, TCS, Accenture, Genpact, Amazon, Fractal Analytics, Capgemini, HP, IBM, PwC, EY, Deloitte, HDFC Bank, Kotak Bank, ICICI Bank, TATA Group, Walmart, Citigroup, Amex, Infosys, Wipro, Microsoft, L&T, Hansa Cequity, Mindtree, Subex etc.

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