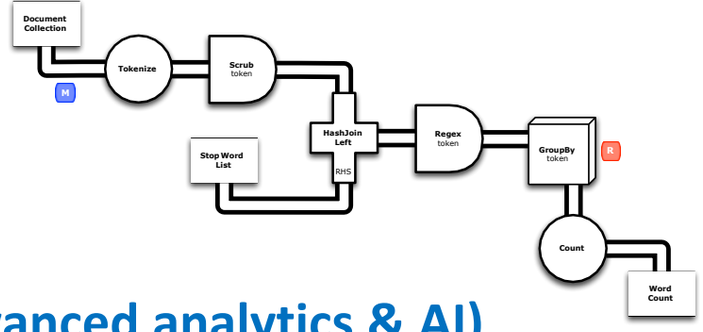
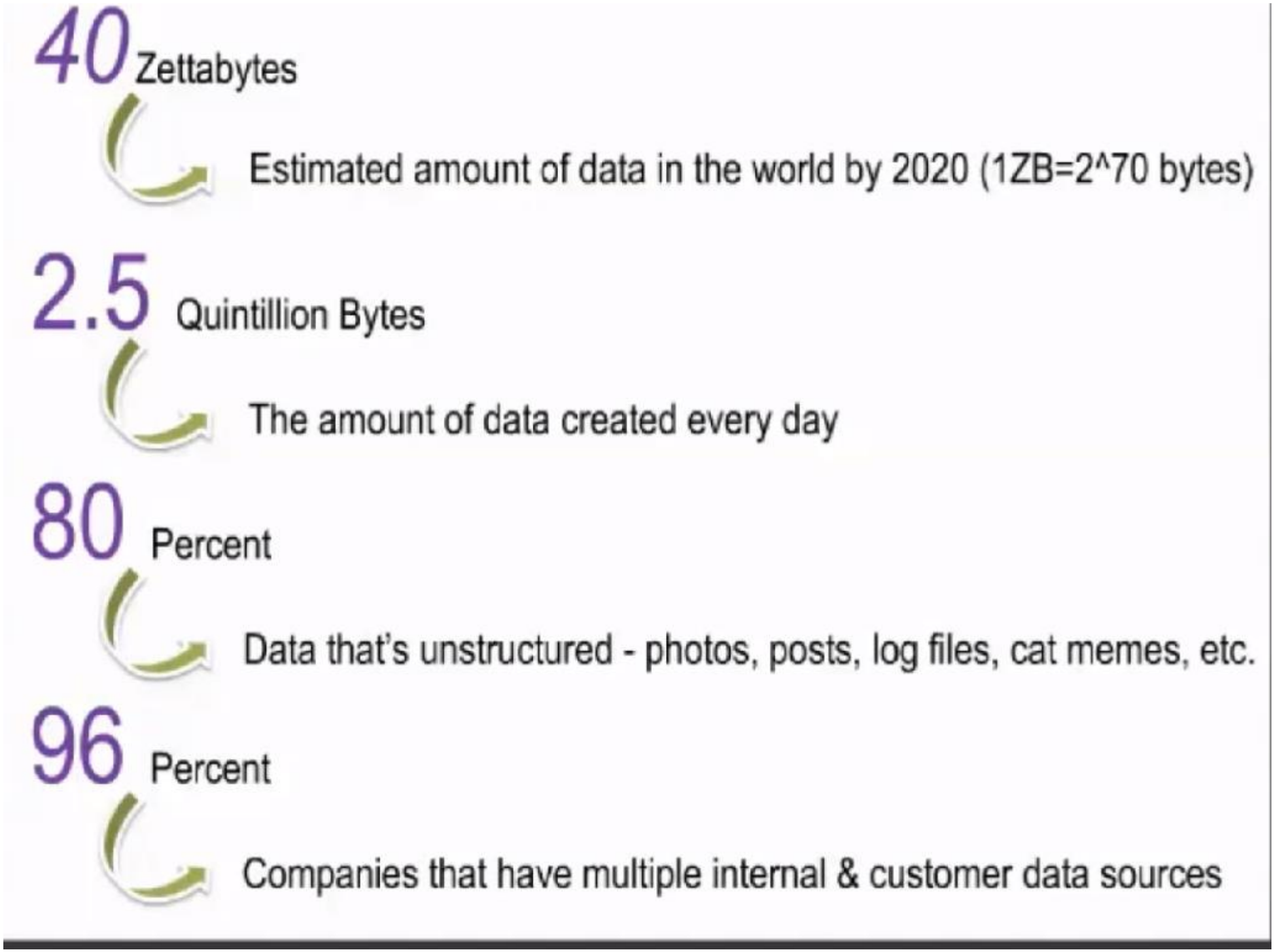
Opportunities in AI & ML



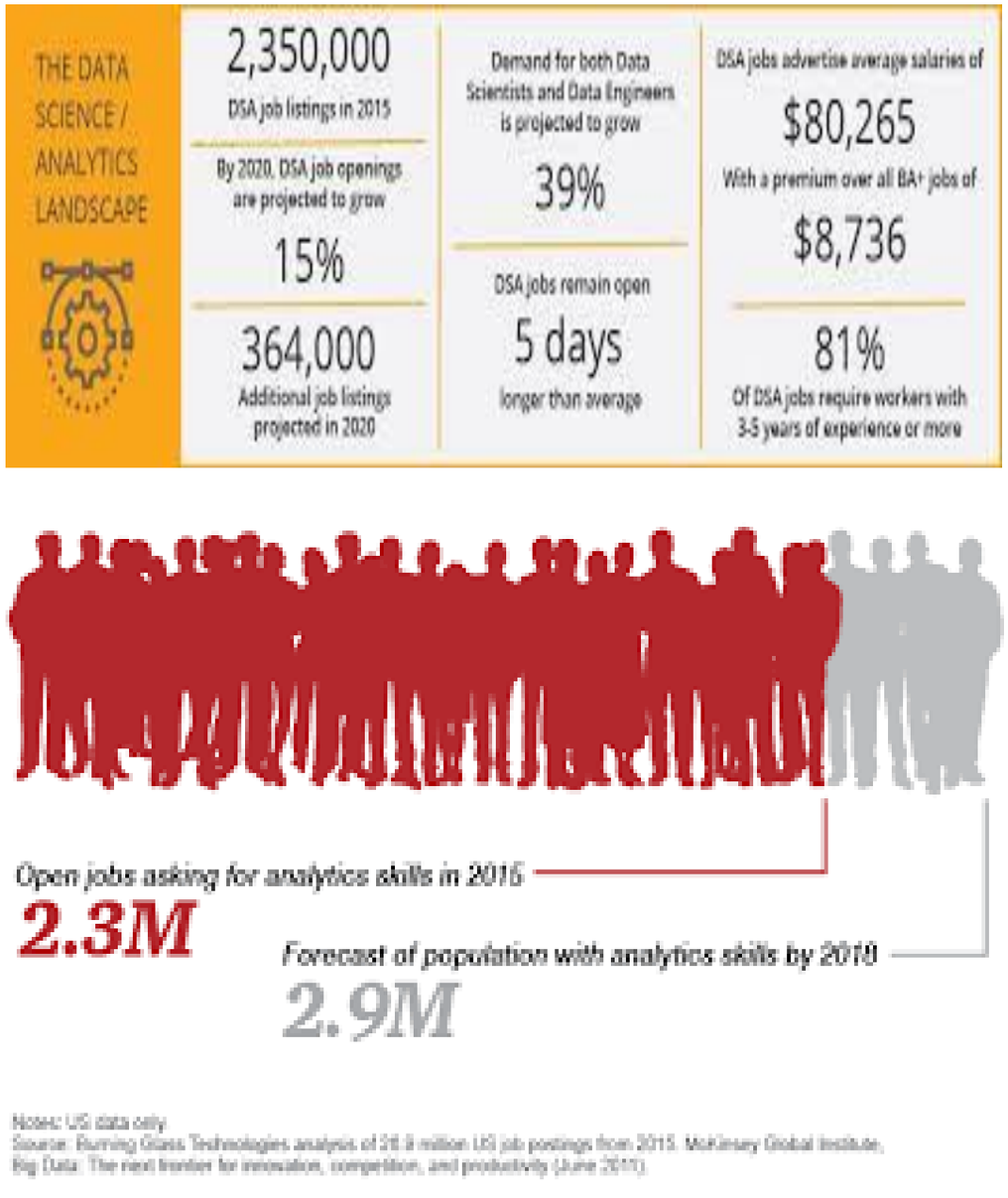
Mrinal – Cloud solution Architect (Advanced analytics & AI)

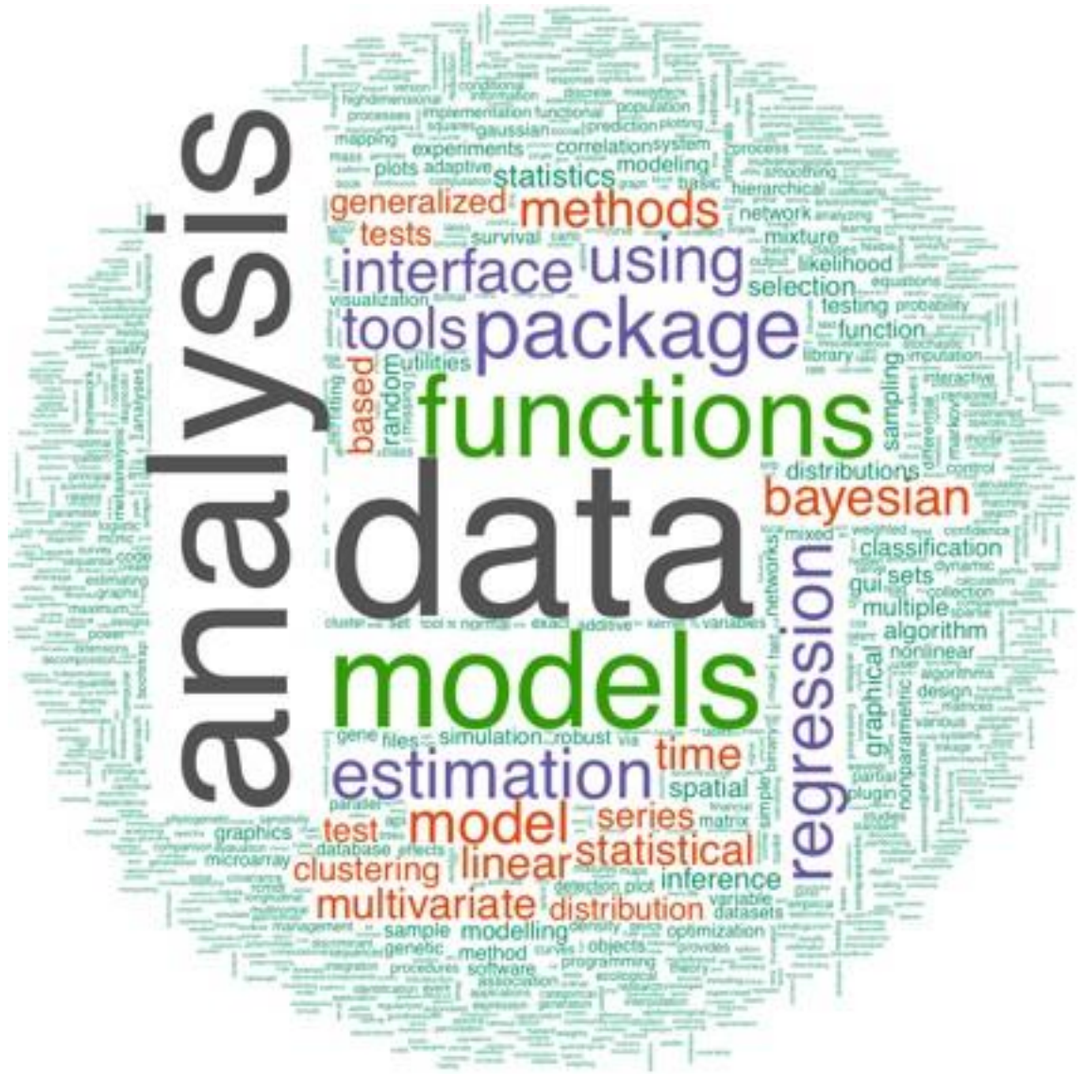
Architect – Data & AI Certified for: Cloudera Spark+Hadoop Dev, Python, Deep Learning, SAS, R and PMP

Massive Data at your door-step!



Inflection point: Demand side





source:
R-Bloggers

You shall get indispensable!

50 Percent

Higher salaries for Big Data Analytics careers vs. traditional IT careers

2,00,000

Shortfall in data analysts and data scientists in India by 2018

600

Analytics firms in India (and thousands of companies that use analytics)

Big Data Analytics

Sample companies

accenture
High performance. Delivered

GENPACT

Google

amazon.com

Mu Sigma

airtel

citibank

Bank of America

Cognizant

Deloitte.

dun & bradstreet

Fractal

IBM

HDFC BANK

HSBC

ICICI Bank

Infosys

KPMG

LatentView

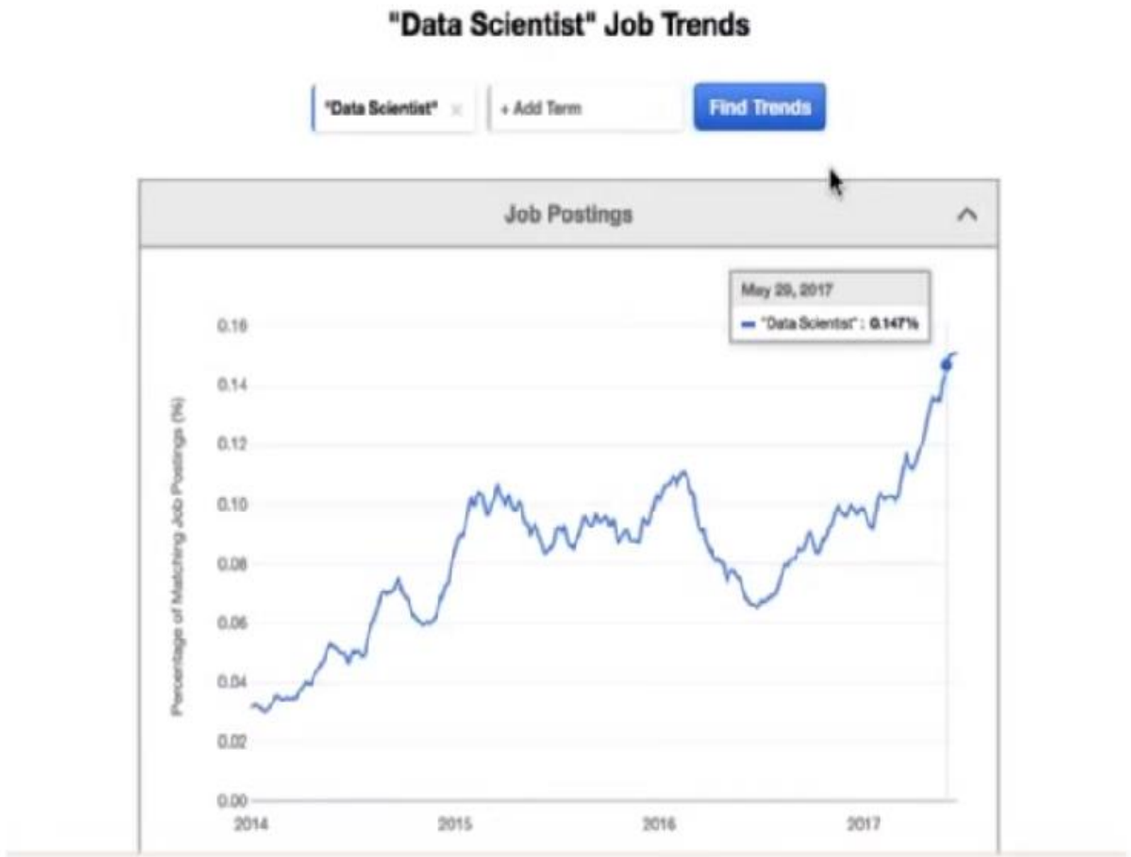
McKinsey&Company

hp

DataScience opportunities, but ….

The Data Revolution

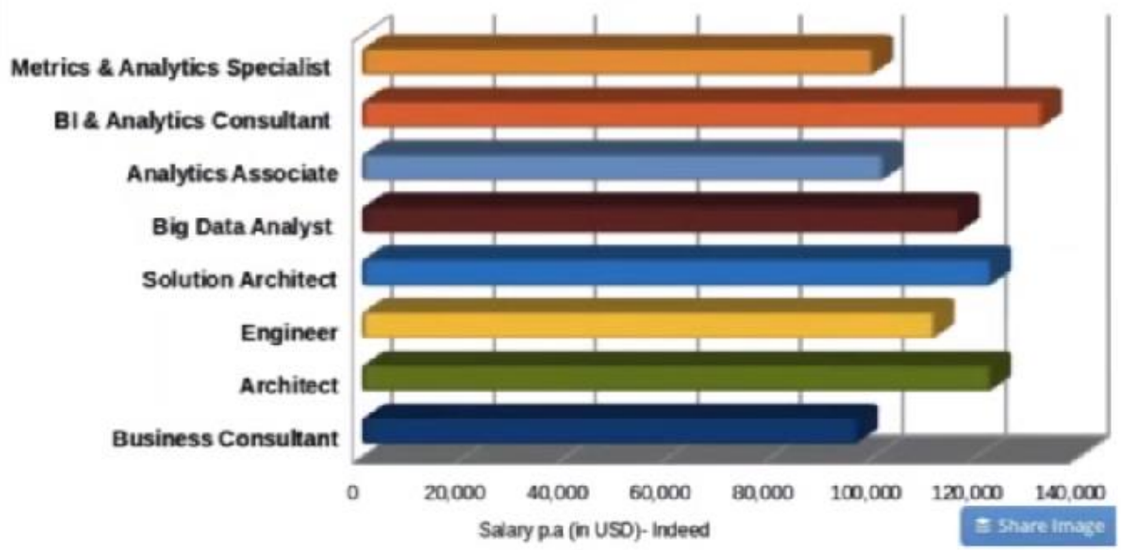
- NASSCOM: Indian companies will need close to 2 lac analytics and big data professionals by 2018



The Data Revolution

- Analytics, Big Data and Machine Learning are amongst the highest paying jobs in the industry

USA

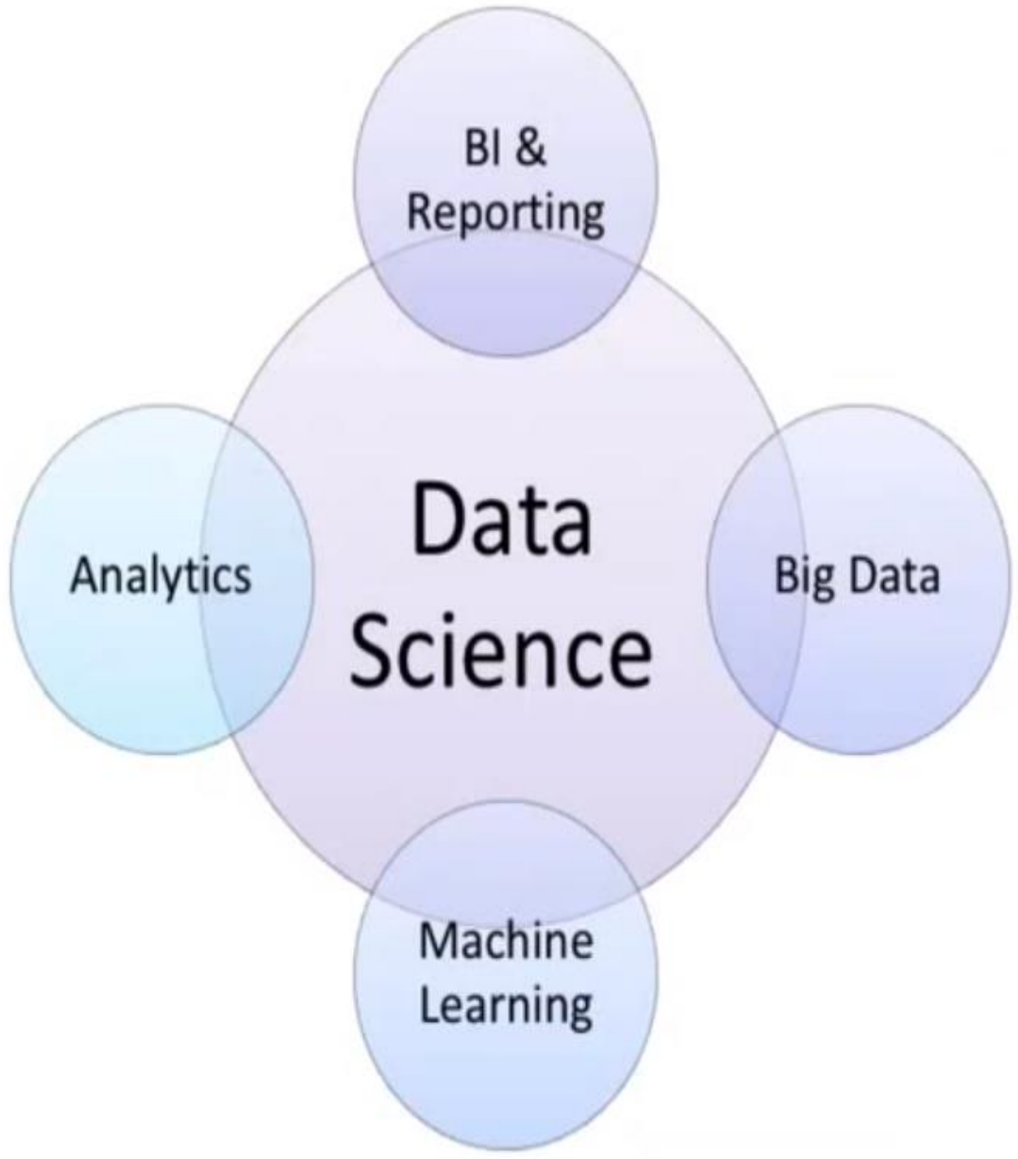


INDIA

Why is Data Analysis a Required Skill Set?

- Gartner: "**Every knowledge professional has to be a data scientist**"
- For IT professionals looking to transition, Analytics, Big Data and Data Science are huge opportunities
- Analytics is used in all industries: BFSI, Telecom, Manufacturing, Energy, Automobiles, Consulting, etc.
- Our own candidate mix: IT, Banking, Analytics, Consulting, Manufacturing etc.

Career Tracks in Data Science

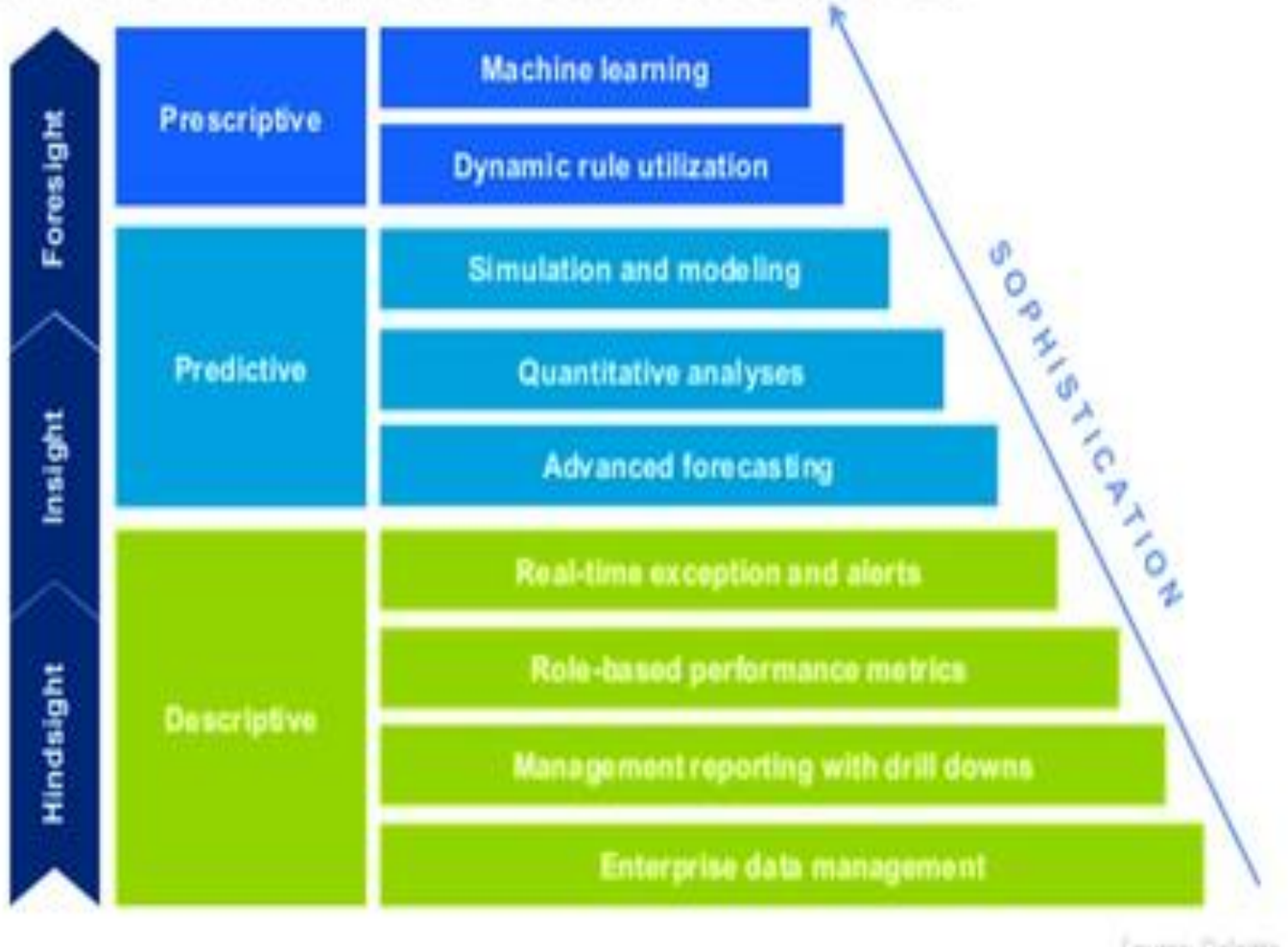


- Analytics and Big Data jobs are growing and there is a shortage of talent
- Machine Learning is nascent and highly specialised as of now
- BI & Reporting is a stable segment
- **Business Analytics and Big Data are the two big opportunities**

Analytics

Analytics and Data Science

Analytics and Data Science is the discovery and communication of insights and patterns from the data to solve business objectives.



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THE TIMES GROUP e-paper

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It is possible to fly without motors, but not without knowledge and skill
— *Wilbur Wright*

TIMES ascent
Catapult your career

The mark of higher education isn't the knowledge you accumulate in your head. It's the skills you gain about how to learn
— *Adam Grant*

Wednesday, January 3, 2018 | Hyderabad

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New collar skills will help growth in digital economy

Data Science, AI Abilities To Ensure Career Growth

By Dilpreet Singh

Organisations around the world are dealing with disruptive changes in business and technology that will continue to have a major impact on economies and employment. As many companies in India are creating markets and revitalising industries, there are new dynamics shaping the global labour market.

The nature of work is evolving — and that is why so many technology-related jobs remain hard to fill. As industries from manufacturing to agriculture are reshaped by data science and cloud computing, jobs are being created that demand new skills — which require new approaches to education, training and recruiting. Skills matter for all of these new positions, even if they are not always acquired in traditional ways.

The economy has shown enormous growth potential and as a result, entrepreneurship in India has grown rapidly in the last few years. However, the looming skill gap is a major roadblock for India's growth. Most Indian executives agree that improved access to higher-quality skills will boost productivity and efficiency throughout the economy. New digital technologies are disrupting the business landscape and largely impacting how industries are structured and economic activity occurs.

The emergence of the 'new collar' job community is embracing technology, forging deeper relationships with ecosystem partners and acquiring 'in-demand' skill-sets. Many of these new collar jobs do not always require a four-year college degree, but rather sought-after skills in cyber security, data science, artificial intelligence, cloud, and much more. At IBM, we have seen countless stories of motivated new collar professionals who have built the skills they need to thrive in the digital economy. The demand for new collar skills will continue to grow, and we need to increase the number and nature of opportunities made available to workers. Closing the high-tech skills gap could fill millions of jobs around the world — but only if large-scale training, and public private partnerships, can better connect many more workers to the training they need.

New collar skills can be acquired via modern vocational training, innovative education programmes, coding camps, 21st century apprenticeships, professional certification programmes and more.

Outlook for the future: By emphasising on new collar skills, organisations can focus on hiring for capability, not just on credentials, and on offering a greater range of pathways to career success. We must work to reform education policies and strategies worldwide to address the shortage of high-tech talent and prepare more people to succeed in today's job opportunities, and build a future of growth and prosperity.

In order to create a distinct differentiation as an employer of choice, we will find organisations focusing heavily on building an inclusive global workplace and transparent culture to capitalise on the growing attention of job seekers.

Focus on skills as the new currency in new age industries will gather momentum. Protection of employee rights will have to have a balance so that organisations continue to remain globally competitive while generating new employment opportunities.

The author is VP HR & HR head, IBM India/South Asia. Views are personal

'IT Inc to provide 2 lakh jobs in 2018'

New Delhi: 2017 was a year of disruption for the Indian job landscape, but hiring scenario looks glossy in the new year with likely addition of two lakh jobs in the IT industry, experts say.

The job market is in a state of flux, thanks to rising adoption of artificial intelligence, and according to experts, upskilling is the only way employees will be able to survive this transitory phase.

While rising adoption of automation technologies will lead to job losses for some segments, sectors like mobile manufacturing and startups look bullish going ahead. AGENCIES

NMDC Limited
(A Government of India Enterprise)
"Khanij Bhavan", 10-3-311/A, Masab Tank, Hyderabad-500028 CIN: L13100AP1958GOI001674

Employment Notification No: 04 /2017 Dated: 26.12.2017

NMDC Limited, a Navaratna Public Sector Enterprise under the Ministry of Steel, Government of India and a multi locational, Multi product and consistently profit making Mining & Mineral Exploration Organization with large turnover. NMDC is in the process of massive expansion and diversification both in India and abroad. NMDC is setting up a 3.0 MTPA Integrated Steel Plant at Nagarnar near Jagdalpur, Chhattisgarh State. The Company has also undertaken a Slurry Pipeline Project for laying of Slurry Pipeline between Bailadila and Visakhapatnam (A.P.) via Nagarnar, Jagdalpur. NMDC is now inviting applications from suitable persons for the following posts of Bailadila Iron Ore Mine, Kirandul Complex, Dist. South Bastar Dantewada (C.G.)

Sl. No.	Post & Grade	No of posts
1.	Maintenance Assistants (Mech)(Trainee)(RS-02)	45
2.	Maintenance Assistants (Elect)(Trainee) (RS-02)	47
3.	Assistant Physiotherapist Grade- II (Trainee) (RS-03)	01
4.	Assistant Lab Technician Grade- III (Trainee) (RS-03)	01
5.	Assistant Pharmacist Grade- III (Trainee) (RS-03)	01
6.	Assistant Dietician Grade- II (Trainee) (RS-03)	01
7.	HEM (MECH) Grade –III (Trainee)/MCO Grade –III (Trainee) (RS-04)	05

For detailed notification regarding age, qualification, experience, scale of pay and other conditions etc, interested candidates may visit **"Careers"** page on NMDC website, **www.nmdc.co.in** and also in Employment News **dated 06.01.2018.**

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(A Public Sector Undertaking under the Ministry of Railways)
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Tel.: +91-11-29565566, Fax: + 91-11-26854000, 26522000
(CIN – U45203DL1976GOI008171) Web: www.ircon.org

Advt. No - 24/2017

IRCON International Ltd. invites applications the regular posts in HR discipline as per below table:

Post / Scale of Pay and Maximum Age
Assistant Manager/HRM– E-2 **Scale of Pay –** ₹ 50,000- 1,60,000/- +allowances + PRP (DA) **Post Code :** 1-005 **Total Posts:** 02 (UR) **Max. Age:** 33 years
Asst. Officer/HRM –E1 **Scale of Pay –** 0,000/- +allowances + PRP (DA) ons

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- CSR Leadership Award
- Social Entrepreneurship
- The Outstanding Volunteer
- Outstanding Contribution to HR
- CHRO of the Year
- Best Global HR Research

INDIVIDUAL CATEGORIES
- Outstanding Contribution to the Cause of Education
- Organisation with Best Employee Relations Practices
- Award for Leading HR Practices in Quality Work-Life
- Award for HR Practices in Corporate Social Responsibility ...and many more

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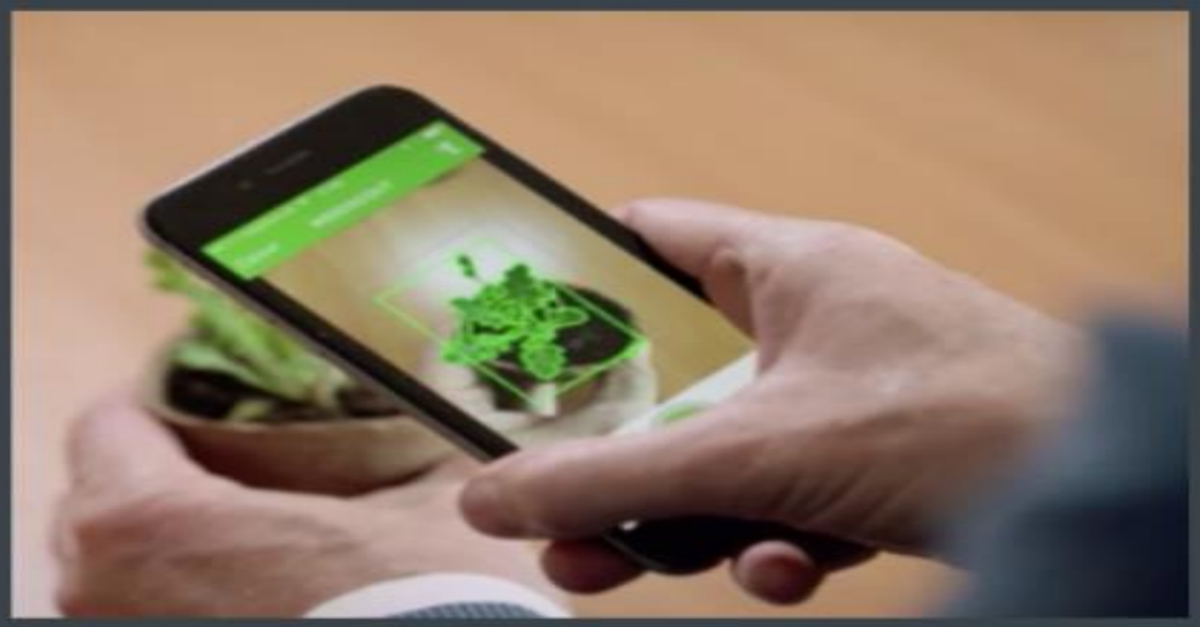
Pages

https://timesofindia.indiatimes.com/business/india-business/new-collar-skills-will-help-growth-in-digital-economy/articleshow/62340503.cms

supply ch(AI)n: weekly roundup of news related to machine learning for supply chain

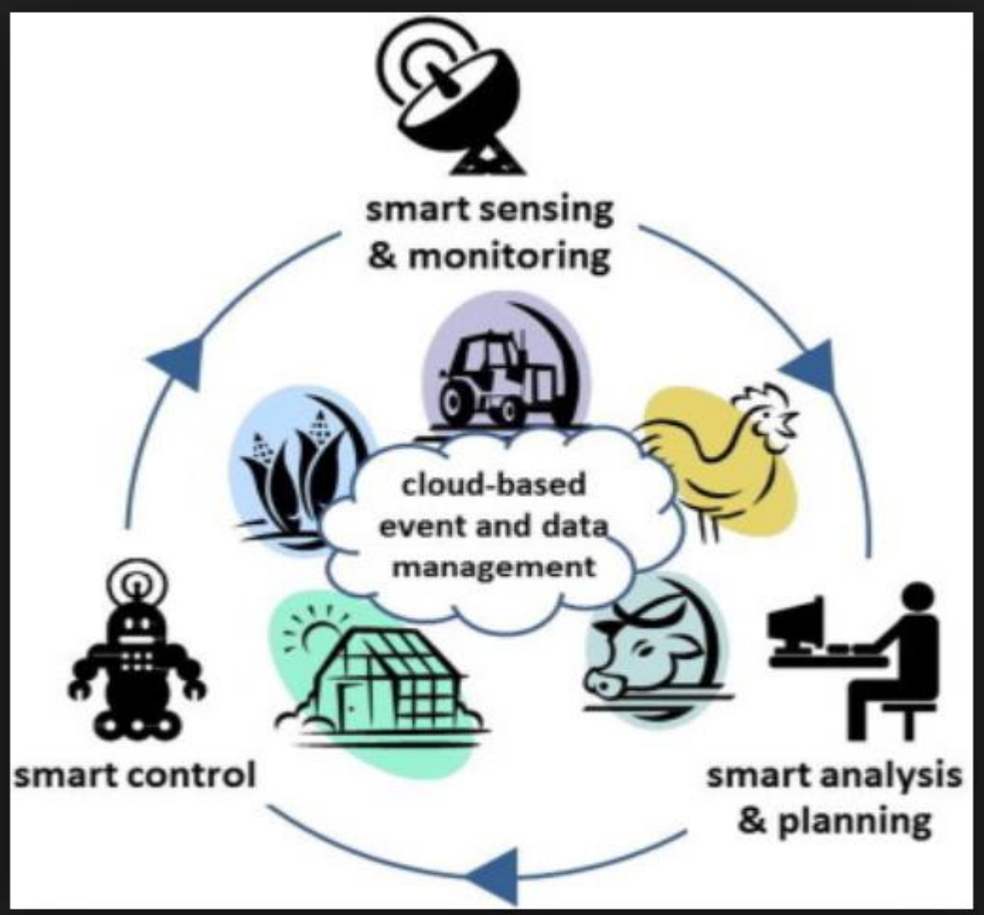
Curated by Deepnify. We help food companies cut waste and stock-outs with cutting edge Deep Learning technology.

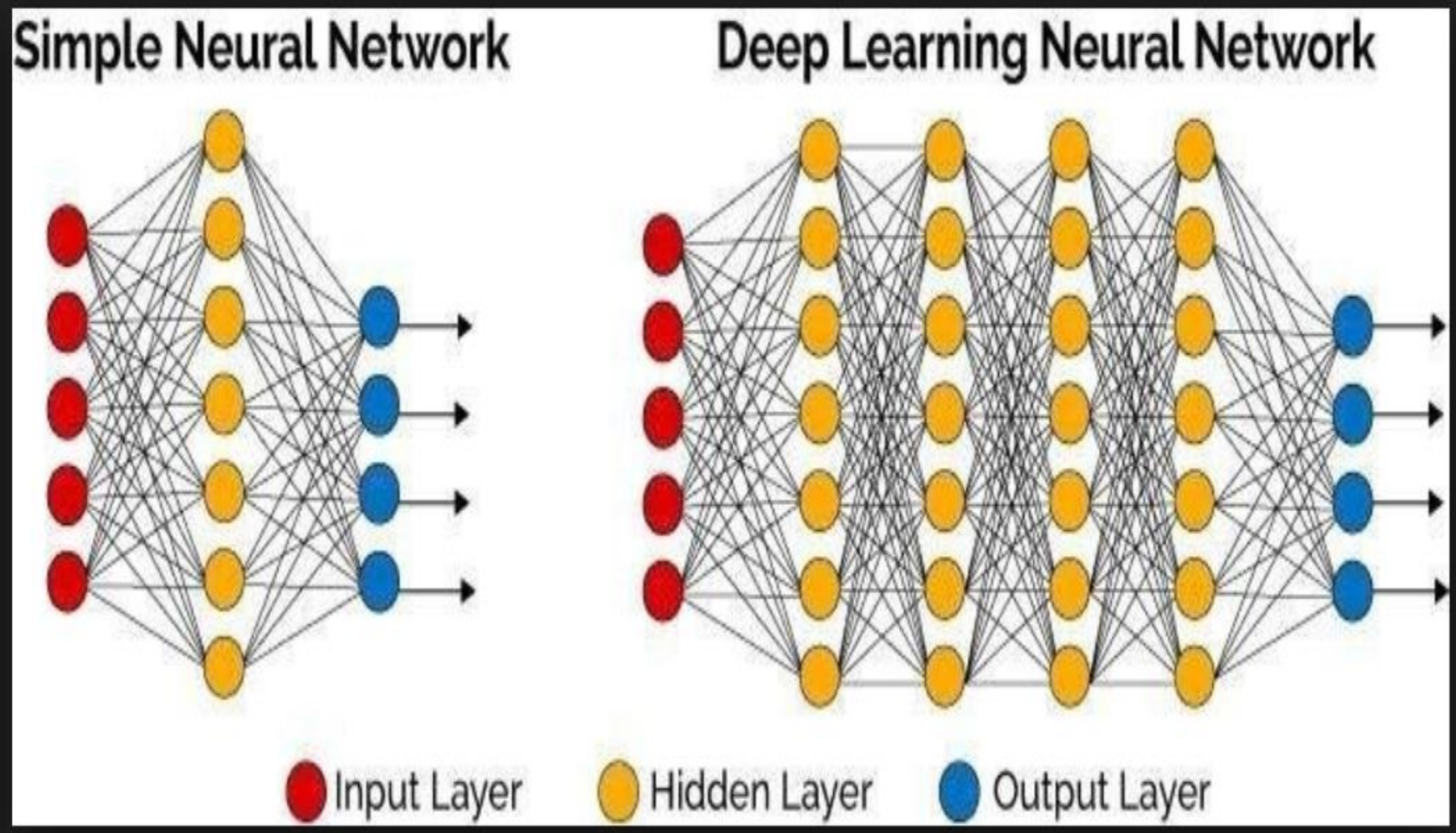
Week of May 21st, 2017



- Bayer Digital Farming discusses artificial intelligence as the future of agriculture
- They are confident in farmers being able to integrate new technologies

(Source: Bayer Crop Science)





DataScience opportunities in your general Newspaper !

AI, goldmine of insights for govt & businesses: Coursera

Shilpa.Phadnis
@timesgroup.com

Coursera co-founder Andrew Ng believes AI is the new electricity, transforming every major sector and embedding itself into daily life, like the way electricity did some 100 years ago. Ng, an adjunct professor at Stanford University, was the founding lead of the Google Brain deep learning project. Ng, who was in Hyderabad on Monday for the Nasscom-WCIT conference, spoke to TOI. Excerpts:

How do you see the AI story unfolding in boardrooms and management discussions?

AI is the new electricity and it has made significant advances to transform industries. If you look at Google and Baidu, it's not that AI is just used for online advertising. Google and Baidu have better web search results, much better map services and computer security. So many businesses and products are being transformed using AI and if we look at our society, there would be hundreds of great projects to be done. I think CEOs should get involved because what businesses will fail and what will succeed is changing because of AI technologies. In healthcare, AI will be used for diagnosis, in IT services, what we can automate is changing significantly because of AI. I think call centres will be significantly impacted.

> "The biggest ethical challenge AI is facing is jobs. You have to reskill your workforce not just to create a wealthier society, but a fairer one. A lot of call centre jobs will go away and a radiologist's job will be transformed. Governments and corporations have the responsibility of reskilling. There's still a lot of work humans can do in the foreseeable future and we don't seem to find enough people in some areas. We can't find enough healthcare workers, teachers or wind turbine technicians in the US —**Andrew Ng** | COURSERA CO-FOUNDER

China's is emerging as a dominant force in the global AI race. How is India placed to leapfrog into the future with AI?

AI is witnessing an early innings in India. It has a thoughtful government and India can race ahead if it chooses to. India has a chance of capturing a large piece of the AI story. The Chinese AI ecosystem is very sophisticated. The action is in the Valley and Beijing. The scale of activity and how quickly the companies embrace it and take AI tech to the market is remarkable.

Do you think domain-specific AI has made significant progress?

There is fantastic progress in AI in the last few years. Almost all the progress has been in building specialized intelligence. For instance, speech recognition works much better now than a few years ago. The ability of a self-driving car to detect other cars is much better now than two years ago. A lot of unnecessary hype about AI is about the fears of general intelligence (machines performing any intellectual task a human can, by connecting varied elements). I would like for us to make progress on artificial general intelligence, but that might be many years away.

https://timesofindia.indiatimes.com/people/andrew-ng-interview/articleshow/62995821.cms

MNC tech hiring jumps 29% in '17

Sujit.John@timesgroup.com

Bengaluru: In India's technology space, the biggest increases in hiring and the highest salary increments are now happening in the engineering and R&D arms of MNCs.

Hiring in the segment increased by 29% in 2017, the highest increase in recent years, and nearly 2 percentage points more than in 2016, according to consulting firm Zinnov's latest annual study of HR trends in what is referred to as the global in-house centre (GIC) space. The study is based on a survey of 43 GICs across India. There are nearly 960 MNCs with over 1,200 R&D and engineering centres in India.

The study does not say how many employees are in the sector, but a survey for 2016 had estimated the strength then to be 8,15,000. Some estimate the current strength to be close to a million (10 lakh).

WHO GETS THE HIGHEST HIKE

Top performers	Promoted employees	Employees with niche skills
15.1%	16.8%	14 - 18%

NICHE SKILLS
Robotics, UI/UX (user interface, user experience), mobile, machine learning, analytics, and big data

WHY R&D IS HOT
New digital technologies forcing global corporations to ratchet up engineering strengths and build solutions

(Source: Zinnov study of HR trends)

The GIC hiring growth rate is significantly more than that in the Indian IT sector, where headcount growth is now estimated to be lower than that of revenue, which is about 8%. The gross hiring in top IT services companies is growing between 5% and 10% annually, while net hiring (which excludes those who quit) is barely growing.

GIC salary increments in 2017, though slightly lower than in 2016, were more than twice that in major Indian IT companies. While the average increase was 5% in Infosys and Wipro, the average for the surveyed GICs was 11.2%. It was as high as 14% for junior employees and 12.6% for mid-level employees. For senior executives, it was 10.5% and for top executives, it was a shade over 9%.

However, these increments were slightly lower than in 2016. Anand Subramaniam, engagement manager & delivery head in Zinnov, said this may be partly because the startup bubble of 2016 had forced everybody to offer big increments that year.

The slew of new digital technologies — including cloud, analytics, machine learning, artificial intelligence, internet-of-things, and robotics — are forcing global corporations to enhance their engineering strengths and build new solutions, partly to take on the challenge from new-age ventures who are not burdened by legacy technologies. And the only location where they can find engineers on the scale required, and with requisite skills, is India. Numerous global retailers, for instance, have in recent years established centres in India to develop new tech that can help them fight Amazon.

https://epaper.timesgroup.com/Olive/ODN/TimesOfIndia/Default.aspx#

Hyd second largest IT sector, says KTR

Swati.Bharadwaj
@timesgroup.com

India is becoming an acknowledged digital market and is poised to emerge as a $1 trillion digital economy in the coming five to seven years, Union minister for electronics and information technology, Ravi Shankar Prasad, said here on Monday.

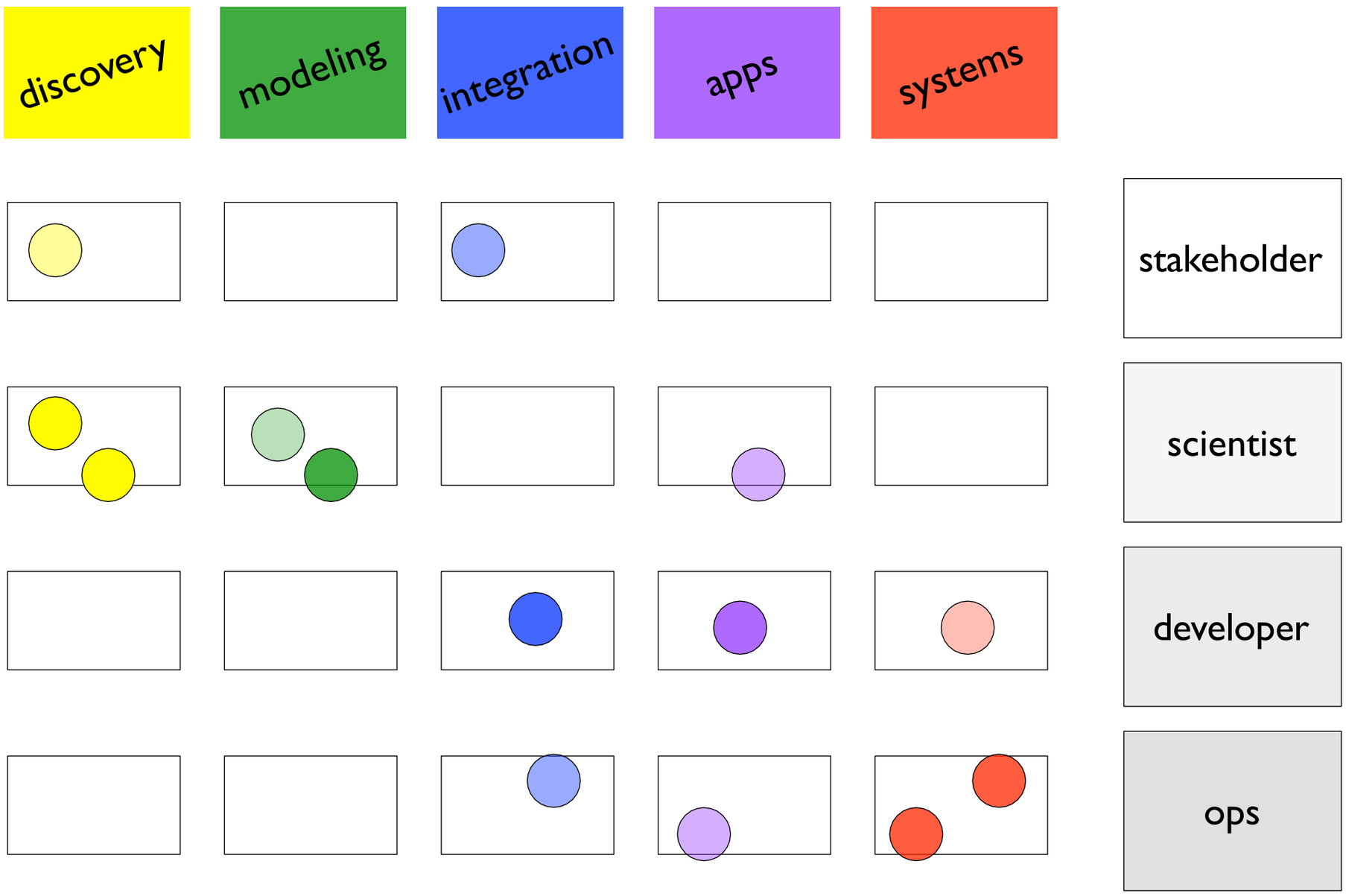
Prasad, who was speaking at the opening session of the World Congress on Information Technology 2018 and the Nasscom India Leadership Forum 2018, said the government has been pushing India's digital economy through initiatives like Digital India and Startup India and trying to empower ordinary Indians through the power of technology and inclusive development. He also flagged a few concerns like the need for new technology like AI to continue the engagement of the government with citizens by way of delivery of services like healthcare, education and the like, reskilling of the country's workforce in a proper manner, the adjustment to new technologies and transition must be handled properly without making the stakeholders too uncomfortable and regulatory of new technology. In his address, Telangana IT minister K T Rama Rao said Hyderabad is home to the top 5 global IT giants and boasts of second largest IT sector in the country with an employment of close to 0.5 million people.

$1 TRILLION DIGITAL ECONOMY: RAVI SHANKAR

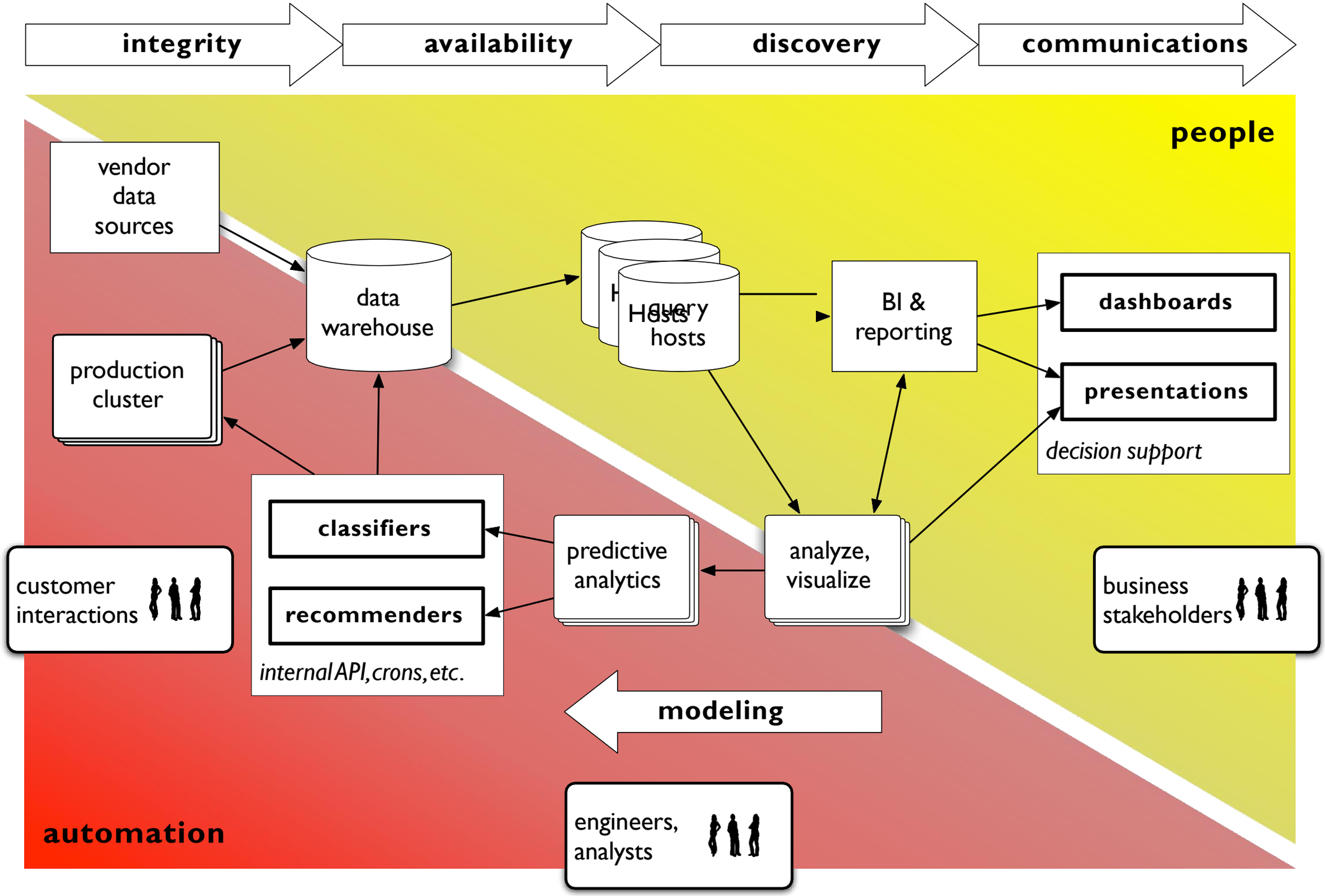
> "With the advent of new technologies like AI, Blockchain and IoT, reskilling of young professionals is critical. Nasscom has come up with this unique platform for skilling and reskilling young people where my department and team will provide lot of support and assistance

He spoke at length about Telangana's efforts to increase IT penetration through T-Fiber project that aims to provide digital connectivity to 10m homes with optic fiber to deliver effectively G2C and G2G in e-governance, education and healthcare, among others, by piggybacking on the Mission Bhagiratha drinking water project. Through T-Fiber we will be laying 100,000 kms of HDPE ducts to connect more than 8778 village and 4.7 million rural households with broadband speed of over 100 mbps and 1gbps to institutions. Prasad and KTR also launched the TDN pilot project of T-Fiber, which has been established in four villages under the Maheshwaram mandal in the state.

matrix: Example team

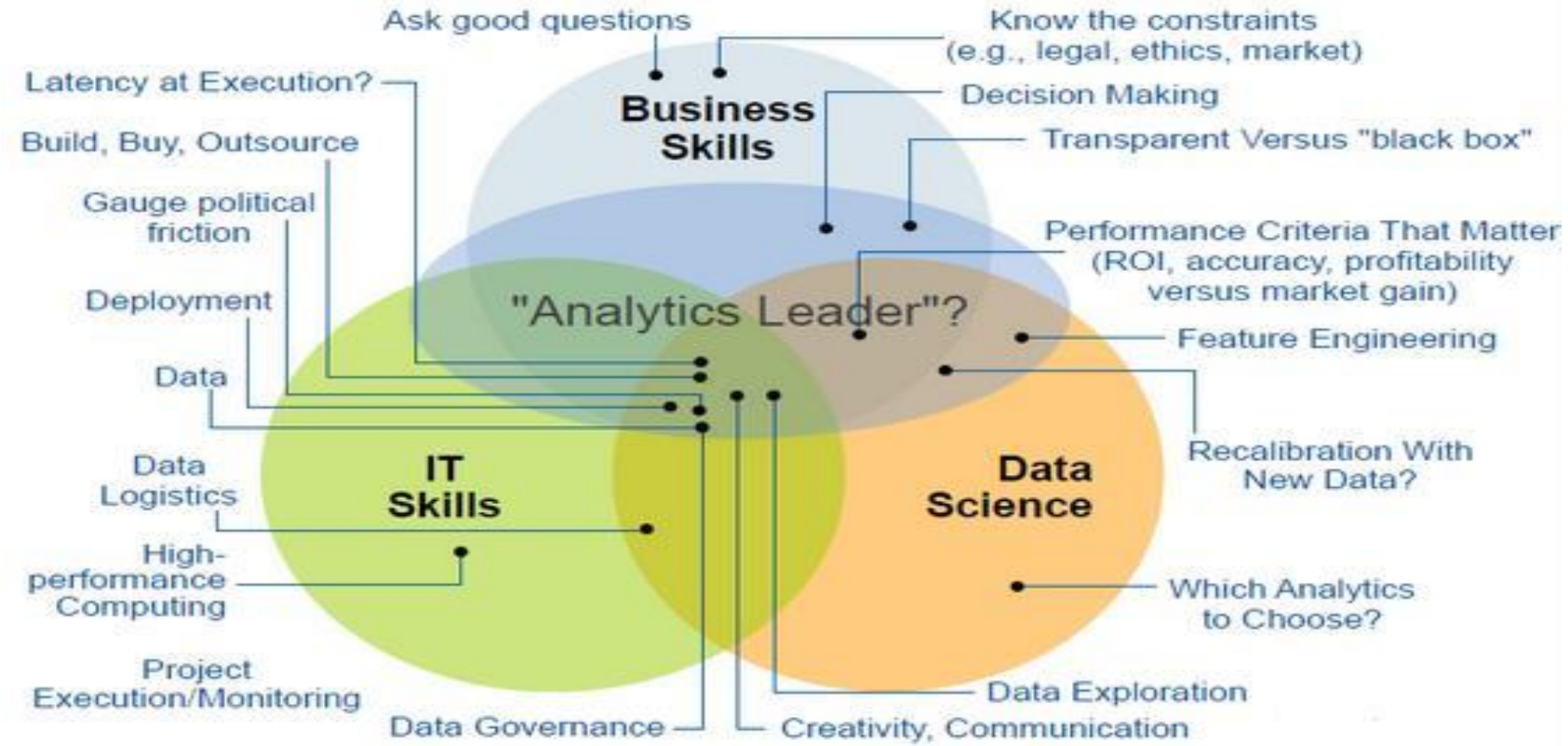


typical hand-offs



Expectation

Process ⟹ **Variation** ⟹ **Data** ⟹ **Tools**



Robots 'are here to give us a promotion,' not take away jobs, Gartner says

- By 2020, AI will generate 2.3 million jobs, exceeding the 1.8 million that it will remove, research firm Gartner said in a report
- The public sector, healthcare and education are expected to benefit the most, while manufacturing and transportation may be the hit the hardest, the company said

Yen Nee Lee
Published 10:14 PM ET Mon, 18 Dec 2017
CNBC

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- Delhi NCR (8299)
- Mumbai (5850)
- Hyderabad (3834)
- Pune (3791)

1-50 of 47232 Ai Or Machine Le... Jobs | Sort by: Relevance

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Keyskills: sas, **machine** learning, Python, Data Scientist
Not disclosed | Posted by HR

Java Scientist - **Machine** Learning/ Spark

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FLIGHT OF RESPITE

Ramoorthy P

A cormorant takes off from a pond next to the Hussainsagar to find a cooler place under the shade of a tree

Van hits two; woman farm worker dies, daughter hurt

TIMES NEWS NETWORK

Hyderabad: A 55-year-old woman died and her daughter suffered severe injuries when a speeding van hit them at Aler in Yadadri Bhuvanagiri district on Tuesday morning.

The victim was identified as T Kamalamma, 55, a farm labourer from Siripuram village in Yadadri Bhuvanagiri district. Her injured daughter, Sunitha, 35, is a farmer from Vanchegudem village near Aler.

Recently, Sunitha's paddy crop suffered a lot of damage due to hailstorm.

The Tata Ace van that hit the two women on Tuesday

On Tuesday, Kamalamma visited her daughter's village to see the crop damage. The accident occurred while she was returning to Siripuram.

"As the mother and daughter were crossing the road at Gollakonda village

City is a hotspot for student internships

'Comes Next To Delhi And Bengaluru'

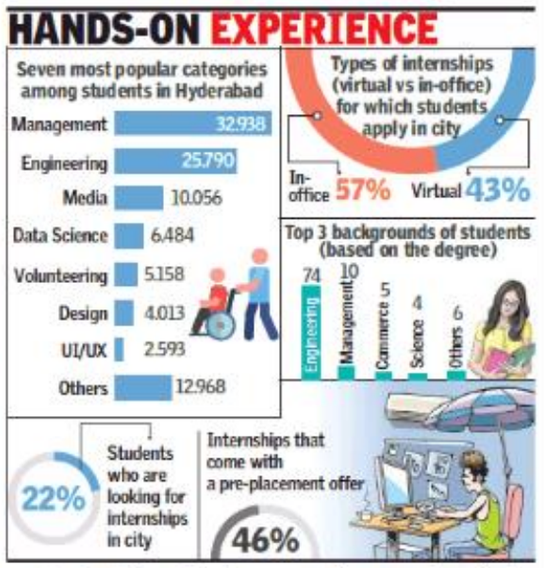
TIMES NEWS NETWORK

Hyderabad: After Delhi and Bengaluru, Hyderabad has emerged as a hotspot for students seeking internships with an increasing number of engineering and management graduates trooping into the city to gain hands-on experience.

According to data shared by Internshala, an online internship facilitator, of the total number of applications received for internships this season, 32.93 per cent are from management students and 25.79 per cent from engineering students.

In Hyderabad, 46 per cent intersnhips come with pre-placement offers (PPO).

"Hyderabad has a plethora of opportunities for students and young graduates with start-ups and corporates hiring interns for varied profiles like business development, content writing, web development and graphic design. In fact, May and June are the best time for students to opt for internships with higher number of organisations seeking interns," said Sarvesh Agrawal, founder and CEO of Internshala



ment, android app development, programming with Python, core Java, programming with C and C++ and business communication skills, the report suggests.

According to the data, while 57 per cent students look for in-office internship, 43 per cent are keen on virtual internships.

While the e-commerce sector continues to hire most number of interns, Internshala's Internship Trends 2017 report sheds light on how an increasing number of recruiters are hiring in

very few companies offering internships in core areas. "There are hardly two to three per cent students who are get internships in companies which not only provide training but also stipend. All other companies offer internships in sales and marketing that are nowhere related to their core skill set," said a head placement officer from an engineering college in Ibrahimpatnam.

Others claim that the AICTE's practice of tying up with online internship portals to help students must

Man arrested for torturing animal

Hyderabad: Ghatkesar police arrested a pig-rearer for torturing the animal and misbehaving with a woman activist.

On April 21, N Sai Priyanka saw the accused, Bijili Mahesh, torturing a pig by tying up its limbs at an open place near Nalla Narasimha College. When she confronted him Mahesh caught hold of her hand and abused her using filthy language. Priyanka then approached the Ghatkesar police and lodged a complaint.

Based on the complaint, police registered a case against Mahesh under various sections of the IPC and Prevention of Cruelty to Animals Act, 1960.

T govt may raise 2-BHK unit price

Roushan.Ali@timesgroup.com

Hyderabad: To ensure that the construction of at least two lakh 2-BHK houses are completed before the bugle is blown for the 2019 polls, chief minister K Chandrasekhar Rao has decided to consider increasing the cost of construction per unit fixed by the government.

EYEING POLLS?

2-BHK units allocated by govt **2.7L**

the price of steel rose from Rs 32,000 to Rs 54,000 per tonne in the last two years, cement prices have gone up from Rs 230 per bag to over Rs 350 in the last two years.

However, the construction cost of the 2-BHK units fixed by the government — Rs 5.04 lakh per unit in rural areas, Rs 5.3 lakh per unit in municipalities or urban areas and Rs 7.9 lakh per unit in GHMC area — has remained unchanged.

Despite steel and cement manufacturers agreeing to supply at lesser rates compa

CRIME FILE

Bike thief held, vehicles seized

OU police on Tuesday arrested a notorious vehicle thief Bommala Dilip Kumar, who specialises in lifting bikes, and recovered property pertaining to seven cases. A resident of Anand Nagar in Nagole, Kumar uses a duplicate key, takes away bikes and later sell them to people.

2 women saved by Lake Police

The Lake police on Tuesday rescued two women from jumping into the Hussainsagar. A 19-year-old girl of Meerpet tried to jump into the waters, but was rescued and counselled by cops. Another woman, 21, from Asif Nagar wanted to end her life over a tiff with her mother but was rescued.

Worker torches self to death

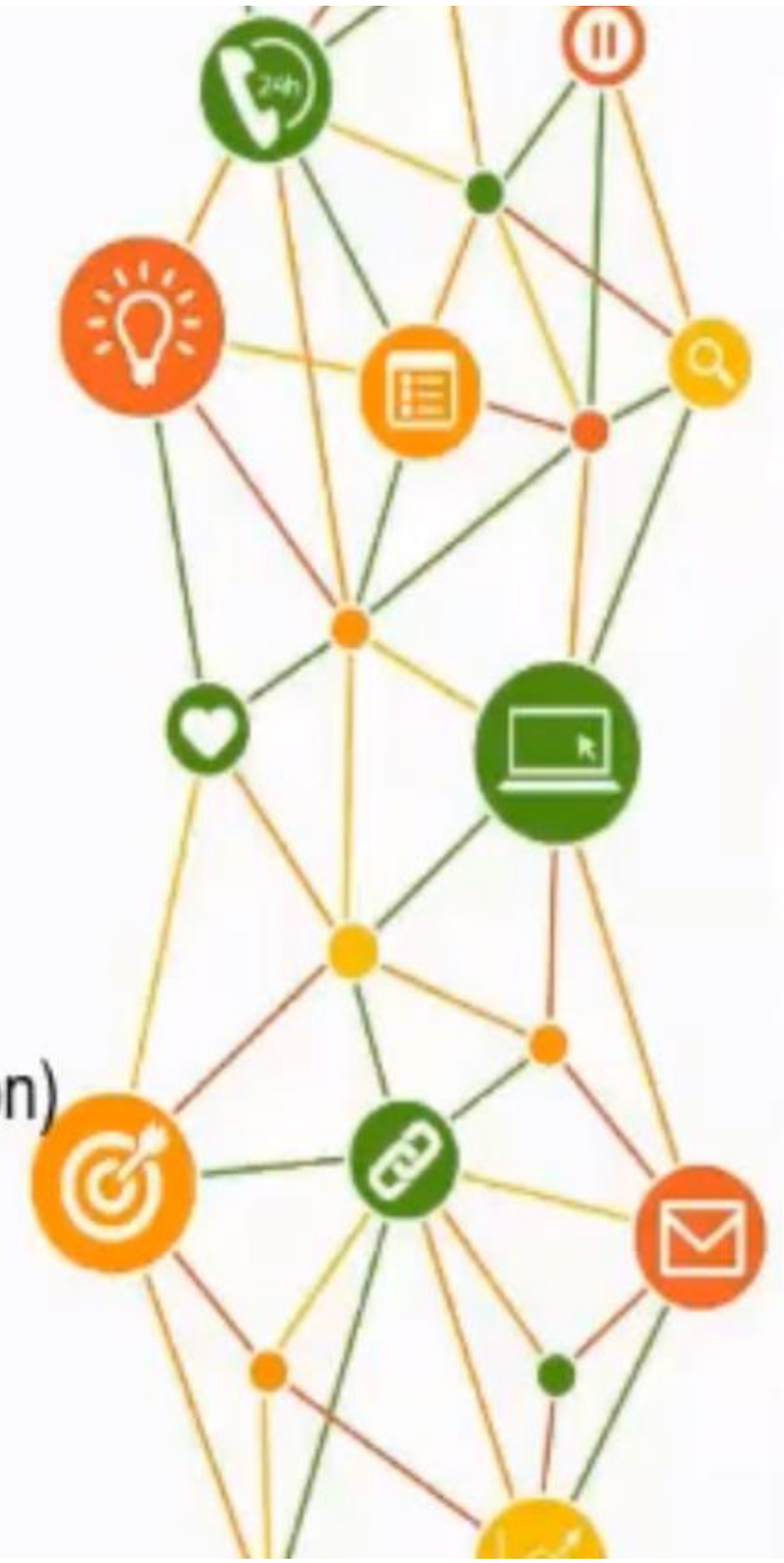
A labourer U Devaiah (45) of Yamnampet committed suicide by setting himself on fire on Monday night. He beat up his daughter and wife, poured kerosene on them and himself. When his daughter refused to give him the matchbox, he locked himself up in the kitchen and lit the stove.

2 robbers held, cash seized

Bowenpally police on Tuesday arrested two robbers — Chitari Saibaba

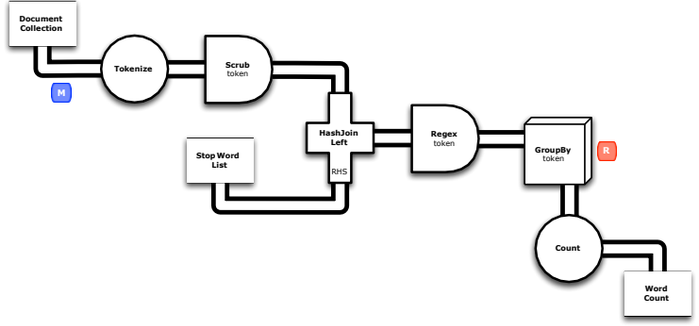
What you need to **LEARN**

- Statistical foundations
- Management of data from various sources
- Big Data Technologies
- Analytics techniques (and suitability to a situation)
- Machine Learning techniques
- Visualization techniques



Various Ways to Learn: The 4 mantras

- Learn skills not tools. Tools will change. The premium is on tools and skillsets
- There is no alternative to upskilling. At the same time, never believe things will just happen once you do a course
- Always assess on basis of curriculum, faculty & learning outcomes
- Online vs Blended
  - Classroom facilitates in person interaction and peer networking
  - Online learning needs you to be highly self motivated. High drop out rate
  - Learning from content alone is not possible
  - Learning a skill is tough and has to be 'high-touch'

Thank – You

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