Information Resources

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13 Leading Data Science Products From India That Made It Big In 2019: There has been a steady increase in the analytics and data science service providers in India facilitating the adoption of analytics functions across organisations. Analytics products and services may come in various forms, helping companies transform the way they conduct business. This year, Analytics India Magazine brings a list of 'Top 13 Data Science & Analytics Products in India' that are helping organisations to make decisions with data. It lists 13 amazing data science products that are transforming the industry. http://bit.ly/2PLUH7c

40+ Corporations Working On Autonomous Vehicles: Beyond trendy names like Tesla and Alphabet chasing self-driving cars, a host of auto brands and other tech heavyweights are also investing in autonomous R&D. http://bit.ly/2rzk2cF

16 inventions getting us off fossil fuels and into renewable energy: Much of the world's energy is sourced from fossil fuels. .. Several innovators and companies have developed inventions to help get the world off of non-renewable energy. For example, the HomeBiogas 2.0 turns food waste into gas, producing up to three hours of cooking gas. http://bit.ly/2rKzq5V

Terms of Service; Didn't Read: https://tosdr.org/ is a user rights initiative to rate and label website terms & privacy policies, from very good Class A to very bad Class E. Terms of service are often too long to read, but it's important to understand what's in them. Your rights online depend on them. The tosdr initiative hopes the ratings of this site can help you get informed about your rights. Click on a service below, to have more details!

Digital transformation: 10 counterintuitive tips: No two digital transformations look alike - so why do so many organizations try to follow the same rules? Turn common wisdom on its head with these tips from CIOs and tech execs. https://red.ht/34kbcN1

The Multi-Billion Dollar India-SaaS Opportunity (250+ SaaS Startups): Here's our snapshot of the India SaaS-ecosystem (where someone interested can go and find a list of SaaS companies) curated from SaaSBooMi attendees/applicants. http://bit.ly/2RQrZER

Open-Source Software Has Changed The Way Software Is Developed. Here's where the $33B Industry Is Headed: When it comes to software development, the term "open-source" is almost synonymous. And as the most collaborative method of software development, it has grown increasingly popular over the last two decades. In fact, the open-source services industry is set to exceed $17B in 2019, and expected to reach nearly $33B by 2022, according to CB Insights' Market Sizing tool. Among its many characteristics, open-source software is publicly accessible, which allows developers to exchange code & ideas in a transparent and collaborative fashion. It also enables flexibility for many businesses looking to solve a wide range of problems. Today, over 30M developers contribute to community-based platforms like GitHub. And the broader market is estimated to be worth hundreds of billions based on recent big-ticket acquisitions like Red Hat (acquired by IBM for $34B) and GitHub (acquired by Microsoft for $7.5B) — as well as large public market valuations like those of MongoDB ($7.9B) and Elastic ($7.3B). In this analysis, we discuss the various elements of open-source, including what the software is, who the major players are (as well as who they're benefiting — hint: cloud providers), and what the future has in store. http://bit.ly/2t9TTRV

Project Management Guide for Beginners: Your ultimate introduction to the fundamentals of project management, curated best practices, and resources for project management beginners, all in one place. http://bit.ly/2LOHhGv

AI in the enterprise: 8 myths, debunked: Enough with romantic robots: Let's dispel eight common misconceptions about applying AI in the business world now. https://red.ht/2qUQsOo

2045: Death will be optional: If the sensational but well-researched book la Muerte De la Muerte, authored by two genetic engineers is to be believed, within 27 years, death would be an option and ageing reversible. Humans by then will only die in accidents and never of natural causes or illness and that old age should be classified as an 'illness' so that a public-funded research can be done to find the cure with Wood saying that he doesn't consider death an illness. http://bit.ly/2YOGKcE

Smart Cities 2025: Smart cities and smarter projects have been among the most actively discussed realizations made possible by IoT, data, connectivity and by leveraging a mix of varied technologies. The interest in smart cities continues to grow, driven by a range of socioeconomic and technological developments across the globe.A smart city responds to the challenges of our time and quality of life. It also ensures that the city meets the needs of future generations — In terms of economic, social and environmental issues. In short, it is a good place to live with the best possible quality of life and most efficient use of resources. Worldwide smart cities market will grow from its current $622 Billion to $1 Trillion in 2019 and $3.48 Trillion by 2026, registering a CAGR of 21.28%. http://bit.ly/36AbFMF

Paging Dr. Robot: How Robotics Is Changing The Face Of Medicine: Can robotics transform the medical industry? While there are plenty of medicine-focused robotics apps in development, the long-term outlook for their use remains to be seen. In this analysis, we'll dig into whether reality is matching those big ambitions, and dive into applications where medical robotics are beginning to enter the mainstream. http://bit.ly/2tcKA3G

8 TED Talks on emerging technologies to watch: From quantum computing to AR to bionic limbs, these emerging technologies deserve your attention. Get up to speed with 8 intriguing TED Talks https://red.ht/2lPVSaB

10 ways to have better conversations: Many leaders take a vested interest in improving their communication skills. They labor over email drafts to ensure the most important updates are explained. They fine-tune and practice their presentations repeatedly before they take the stage at business events. They might even coach their teams on communication best practices and etiquette. But what about the side conversations that happen in the hallways at work or on the road with customers? Do you treat them with the same level of preparation and care? Often not. In those situations, most of us simply wing it. Getting better at day-to-day, informal conversations can improve your overall communication skills, and leaders can practice every single day. Keep these 10 rules in mind for more professional and productive conversations. https://red.ht/2Ejkgal

AI In Automotives: The Future is Now!: Flying cars are no longer a fantasy or science fiction! With AI, autonomous, or self-driving, cars and autonomous flying cars are no more a futuristic dream. Companies like Boeing and Terrafugia have already developed fully-autonomous flying cars. With the emergence of AI, we can see many transformations in automotive and aviation industries. Although autonomous flying cars are not yet available in the market, self-driving cars are ready for commercial sale. Now, imagine our world with self-driving vehicles including cars, taxis, trucks, buses and bikes rolling out on highways, on the streets and on rural roads. This could become a reality with AI a few years from now. Riding a self-driving car with much anticipation would be an exciting and thrilling experience for most of us. Everything in a driverless or self-driving car would seem magical when the steering wheel turns by itself, or the car automatically stops at a traffic light. This article will delve into AI trends driving the automotive industry, including self-driving cars and driver-assistance technologies. http://bit.ly/2EexC7S

A solar-powered system can turn salt water into fresh drinking water for 25,000 people per day. It could help address the world's looming water crisis: People have been trying to turn seawater into drinking water for thousands of years, but the process is not usually energy-efficient or affordable. At a newly constructed facility in Kenya, however, a nonprofit called GivePower is tackling that challenge using solar power. The desalination system, which started operating in the coastal area of Kiunga in July 2018, can create 19,800 gallons (75,000 liters) of fresh drinking water water each day - enough for 25,000 people. http://bit.ly/36AFwok

What Technology Is Most Likely to Become Obsolete During Your Lifetime?: Certain Boomer basements are little shrines to obsolescence, untidy stockrooms of the one-time cutting-edge: VCRs, corded telephones, immense beige PC monitors, etc. Way fewer Millennials will have basements to store trash in ('home ownership' itself quickly verging on obsolete), but presumably, once climate change really hits and they're all renting cots in corporatized storm shelters, they'll have little lockers to put stuff in. And it's worth wondering: what worthless old technology will they be inexplicably hoarding? For this week's Giz Asks, we reached out to a number of historians of technology for their takes on what tech will become obsolete in the next fifty years. http://bit.ly/2LUtHS5

What Would Happen If the Whole Internet Just Shut Down All of a Sudden?: A world in which the internet suddenly stops: surely the TV show's already in development. Sprawling cast, gorgeous visuals, tediously on-the-nose themes. Some handsome B-lister tearing around the country in pursuit of his wayward kids, or the shadowy sect that pulled the plug in the first place. A patch of prairie in Kansas with a weak but functional signal, people lining for miles to check texts, riots breaking out. Thankfully, we don't have to wait for this show to be shot and streamed to get a decent idea of what the

internet apocalypse might look like: for this week's Giz Asks, we asked a number of experts to do the imagining for us. http://bit.ly/2rOp9We

Career advice I wish I'd been given when I was young: A reader who prefers to remain anonymous — but whose career we think did a lot of good — passed us this list of advice which they were grateful to have received, or wish they'd been given when they were younger. We thought it was very interesting, including where it doesn't line up exactly with our usual views, and so are publishing it here with their permission. The advice is targeted towards people sympathetic to the principles of effective altruism, especially those with an interest in public policy careers, but we think much of it is more broadly useful. http://bit.ly/2PFwjnO

12 Industries That Will Thrive Thanks To Millennials: Millennials are one of the largest generations in history, and they're on the cusp of their prime spending years. These are the industries that stand to benefit the most. In this report, we dive into some of the industries — from frozen foods and fast casual dining to micromobility and personal finance apps — that could massively benefit from the rise of Generation Y. http://bit.ly/2YKUVzw

How to build a portfolio and get a job in UX?: This post sums up what author used, what steps he took and what conclusions the author drew from reverse-engineering of UX portfolios. It's not comprehensive. The author assumes that if you're starting out, you will Google terms that you're not familiar with. The author is focusing on outlining a process and sharing tips and tricks which he had learned along the way so that you have an access to what he needed the most during his job changing process. http://bit.ly/2EdFxCv

Networking Technology: Where It Is Now — And Where It's Headed: As corporate bandwidth requirements continue to surge exponentially with every passing year, it becomes clear that bandwidth demands as well as the business requirements of the modern digital workspace are setting the stage for the implementation of new, advanced technologies. These technologies give rise to fresh possibilities and further fuel the demand for adding intelligent systems to our daily lives and greater reliance on tech support, both in the home and workfronts. With software trends emerging regularly in the IT scene, digital services and people are becoming further intertwined to characterize everything that's new the world of network technology this year. These recent advancements are more than likely to disrupt existing operations and foster an era of digitization and intelligence throughout the business sector. Let's see what's getting hot now in networking technology — and how they will be sizzling by the end of the year. http://bit.ly/2ti8hI2

LinkedIn Top Startups 2019: The 25 hottest Indian companies to work for now: With the 2nd annual Top Startups ranking, we uncover the young companies commanding professionals' attention today: the ones that are growing massively, scrambling industries, shifting talent flows around the world and, often, altering how we work and live. Our editors and data scientists parsed billions of actions generated by LinkedIn's 645 million members — and looked at four pillars in particular: employee growth; jobseeker interest; member engagement with the company and its employees; and how well these startups pulled talent from our flagship LinkedIn Top Companies list. To be eligible, companies must be 7 years old or younger, have at least 50 employees, be privately held and headquartered in India. (You can learn more about our methodology at the bottom of this article.) http://bit.ly/2Efy99D

7 Must-See TED Talks On AI And Machine Learning: When it comes to educational dialogue, there is nothing more entertaining than a great TED talk. They provide insight into fascinating subjects in an entertaining way often filled with stories, mind-blowing facts and first-hand experiences of those giving the talks. With AI and machine learning at the forefront of so many questions and topics now, what better way to get the scoop on it than by enjoying some great speeches from those on the cutting-edge of innovation. Here are 7 of the best AI and machine learning TED talks you should watch. http://bit.ly/2qW1d32

21 weird tech job titles of the future: While many human workers fear that they will ultimately be replaced by artificial intelligence (AI), it's more likely that our current workforce will shift into new types of roles for people, according to a new report from professional services company Cognizant. Full post at https://tek.io/2swkR5R Report at https://cogniz.at/2PmY8T1

What Is Geoengineering?: Scientists and researchers are exploring geoengineering, a strategy that could help avert global warming through the intentional, large scale modification of the climate. We examine the business opportunities, major risks, and potential in these technologies. In response, governments, corporates, and startups are looking to geoengineering, a tech-driven solution to fighting change climate that removes greenhouse gases from the atmosphere. http://bit.ly/2PNSNCX

How Big Data is Leading to Big Change: From personalized healthcare to digital farming, and from energy management to digital governance solutions, Business 4.0 technologies have transformed lives across the world by creating customized solutions to tackle challenging social issues. And the organizations that have made a profound and sustainable impact on communities are those that have harnessed the power of big data. At Tata Consultancy Services (TCS), we believe that the coming together of data and artificial intelligence will accelerate social transformation. Our digital publication pArIvartana

explores all the ways in which this change will play out on the ground, highlighting the role of data and analytics for social transformation. Published by the Analytics and Insights (A&I) unit at TCS, this book contains a compilation of articles and interviews with a diverse set of technology experts, industry leaders, CXOs, economists, academicians, researchers, social entrepreneurs and philanthropists, who have all made a sustainable impact on society. The contributors have not only shared their success stories, but also charted out their organizations' vision to make the world a better place for generations to come. ebook at https://on.tcs.com/2RSiYLJ

Toward a New Field of Global Engineering: The Engineer's role in addressing global poverty challenges has often been confined to village and community-scale interventions, product design and development, or large-scale infrastructure design and construction. Yet despite fifty years of these approaches, over half the world's population still lives on less than $5.50 a day, the global burden of disease in low-income countries is overwhelmingly attributable to environmental health contaminants, and climate change is already negatively affecting people in developing countries. The conventional community, product or infrastructure focuses of development engineering is insufficient to address these global drivers that perpetuate poverty. The emerging field of Global Engineering can work to identify and address these structural issues. Global Engineering should be concerned with the unequal and unjust distribution of access to basic services such as water, sanitation, energy, food, transportation and shelter, and place an emphasis on identifying the drivers, determinants and solutions favoring equitable access. Technology development and validation, data collection and impact evaluation can contribute to evidence-based influence on policies and practice. Global Engineering envisions a world in which everyone has safe water, sanitation, energy, food, shelter and infrastructure, and can live in health, dignity, and prosperity. http://bit.ly/34mWftN

100+ Coding Interview Questions for Programmers: Coding Interviews are such an important thing in a programmer's life that he just can't get away with that. It's the first hurdle they need to cross to get the software developer job they wish throughout their school and college days.To make the matter worse, you will find that so many people on the internet telling that coding interview is flawed, the hiring process for programmers sucks and so on but you don't need to pay attention to them, not at least at the start of your career. We all know that Coding Interview System is not perfect and many are trying to change it but until it's changed, you got to follow its rules to get into the System. This is something for experience developers to deal with, as a junior developer your priority should be to clear the coding interview and get the job you want. In this article, the author shares with you top 100 coding interview problems from programming job interviews which every programmer should know. http://bit.ly/36DTPbQ

Inside the Raspberry Pi: The story of the $35 computer that changed the world: The co-creators of the credit-card-sized board reveal the many challenges they overcame to build the breakthrough machine. https://tek.io/35mZZwC

Has Edtech Failed To Revolutionise India's Traditional Education System?: The Indian education system is currently suffering from some serious lacunae. Over the years, a fair share of the blame has been appropriated to the archaic system of 'gurukuls', the colonial rule, and, later on, the society's obsession with engineers and doctors. http://bit.ly/35okuZN

How to Mine the Invisible Web: The Ultimate Guide: The Invisible Web refers to the vast amount of content and information that is not easily discoverable in a general search engine query, such as databases, private networks, or password-protected information. However, there are a wide variety of high-quality Invisible Web search tools, search engines, and directories that can help you mine this fantastic resource that is considered to be at least 500 times larger than the visible web. The following Invisible Web resources will connect you to a virtual goldmine of knowledge, anything from medical dictionaries to moving picture archives to academically vetted articles and journals. Each of these links connects you to a resource that will help you find information that is not easily found with just a simple, rudimentary search. These tools help you do a deep dive into untapped treasure troves of information. http://bit.ly/2PJ6yDe

Artificial Intelligence Technology: Top 18 Technologies Used in AI: Artificial Intelligence (AI) is the combined attribute of science and computer that makes the system or program or any machines perform the Intelligent and Imaginative functions of a human, independently and solution to problems, be able to make decisions. The main aim of Artificial Intelligence systems is to have the ability to discover, which makes people increase their performance and productivity over time. Artificial Intelligent Technology tools include machine learning and deep learning which gives an analysis report to increase the clarity of planning, reasoning, thinking, problem-solving and also learning. http://bit.ly/2Eetip8

Estonia is running its country like a tech company: Estonia is often described as a genuinely digital society. Today a majority of government services are offered 24/7 online, and data integrity is ensured by blockchain technology. You can use medical e-prescriptions, file taxes, or even buy a car online without needing to go to the vehicle registration office. There are only a few things that you still need to do in the analog world, such as get married or buy property. http://bit.ly/2RUtCS2

Industry 4.0 - the Nine Technologies Transforming Industrial Production: The rise of new digital industrial technology, known as Industry 4.0, is a transformation that makes it possible to gather and analyze data across machines,

enabling faster, more flexible, and more efficient processes to produce higher-quality goods at reduced costs. This manufacturing revolution will increase productivity, shift economics, foster industrial growth, and modify the profile of the workforce—ultimately changing the competitiveness of companies and regions. Advanced digital technology is already used in manufacturing, but with Industry 4.0, it will transform production. It will lead to greater efficiencies and change traditional production relationships among suppliers, producers, and customers—as well as between human and machine. Nine technology trends form the building blocks of Industry 4.0. https://on.bcg.com/2PSvXva

10 principles of workforce transformation: When you (or your board members) think about thriving in a digital world, you probably think first about technology. It's evolving so fast that your business constantly has to adapt. But the greatest challenge is not the tech itself: It's developing a knowledgeable, strategically adept, cognitively flexible, and proficient workforce. You want people who can command artificial intelligence, analyze data, invent and apply solutions on the fly, and slide effortlessly into new roles as needed. All the while, they should keep their skills sharp with mobile apps and online self-taught courses. Ideas should flow from all corners of the company, whether from full-time managers or a pool of gig workers who jump in when work heats up How to raise the skills of your employees to meet your digital challenges? The 10 principles below can help you ready your company's workforce for the future. http://bit.ly/2Qkg6F4

How the Economics of Data Science is Creating New Sources of Value: There are several technology and business forces in-play that are going to derive and drive new sources of customer, product and operational value. As a set up for this blog on the Economic Value of Data Science, let's review some of those driving forces. http://bit.ly/34UlDXP

Secrets you should have learned before your first programming job: It's an all too common story in many professions: You go to school for years and walk out with a freshly printed diploma. You snag your first job—and immediately, you're buried under a pile of unwritten rules and day-to-day complexities that no one bothered to warn you about. Programming jobs are no exception, even with the rise of coding boot camps: those accelerated schools that promise to teach you everything you need to know about coding in a matter of months. As it turns out, whether you've earned a Computer Science degree or a boot camp certificate, odds are you're still not 100% ready for your first real job writing software. The basic skills listed here—which you may or may not have learned in school—can help you get started doing real work with less hand-holding and fewer mistakes. We've divided the list into three categories: technical skills, habits and mindset, and soft skills. http://bit.ly/2MouxGP

Hands-On with Google's Quantum Computer: Staking its claim for "quantum supremacy," the company pulls back the curtain on its landmark Sycamore chip http://bit.ly/3950IEV

Inside blockchain and its various applications: In this post, the author explores the technology around blockchain shaping how businesses use data. http://bit.ly/2QqY83N

Why you should worry if you have a Chinese smartphone: China's use of technology for social control of its citizens is extensive – but it could affect users elsewhere too, says security analyst Samantha Hoffman http://bit.ly/2tNYslv

7 Bio-Inspired Robots that Mimic Nature: The rise of robots in automation has led to many humanoid helpers. This can be best seen in collaborative robots (cobots) like Baxter from Rethink Robotics or the UR cobots from Universal Robots. The robotic arm is the new standard in automation assistance because we do not have to change the human environment for these robots to operate effectively. These human-like functioning robots can pick up, locate and place, and operate handheld machinery. However, the human form is not the most efficient form for a robot to mirror. Sangbae Kim, leader of bio-robotics and professor at Massachusetts Institute of Technology, says that industrial robots are "designed to perform rigid and accurate position-control tasks in a fixed location…[however] manufacturing robots are not designed to control force in dynamic situations." The goal of bio-robotics is to design a machine that can interact with its environment and dynamic situations like coming in contact with the ground. Kim points out that "when it comes to the mobile robot, the design paradigm must be completely different from industry robots." Several companies and research groups have focused on biology-inspired robots to create more responsive machines that have an easier time manipulating their environment. http://bit.ly/396PpfC

What Are the Biggest Challenges Technology Must Overcome in the Next 10 Years?: Technology's fine—I definitely like texting, and some of the shows on Netflix are tolerable—but the field's got some serious kinks to work out. Some of these are hardware-related: when, for instance, will quantum computing become practical? Others are of more immediate concern. Is there some way to stop latently homicidal weirdos from getting radicalized online? Can social networks be tweaked in such a way as to not nearly guarantee the outbreak of the second Civil War? As AI advances and proliferates, how can we stop it from perpetuating, or worsening, injustice and discrimination? For this week's Giz Asks, we've assembled a wide-ranging panel—of futurists, engineers, anthropologists, and experts in privacy and AI—to address these and many other hurdles. http://bit.ly/2QdA7gj

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