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MAGAZINE

Tesla Bot

A humanoid robot that leverages vehicle AI unveiled by Elon Musk

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BEHIND THE SCENES

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Burger King's masterplan for economic magnification

Till 1953, after the inaugural Insta-Burger King unveiled for business at Jacksonville, Florida, this brand has indeed successfully been satisfying patrons across the world with its distinctive smoked hamburgers, sodas, as well as french fries. This burger joint now has 17,796 outlets all across the globe. Nonetheless, this brand comes up below McDonald's, which boasts far greater over 38,000 outlets all throughout the world, precisely as it had since it originally started. However, to Burger King's benefit, they were quick to appraise the significance of data analysis and managed to enable it to better enhance their operations.

Burger King recognized that statistics assist not only in the comprehension but also modification of corporate operational activities, enabling businesses to save more cost and resources. Disposal has an impact on each business. This drains funds, takes too much time, and also has a negative influence on the profit margin.

Their huge volume of information and statistics could be considered a treasure, featuring approximately Eleven million transaction records across their store outlets.

Source: https://bit.ly/3nYUDE7
Image Source: https://bit.ly/2zt5jc1

Decoding the competitive edge this Hamburger giant has gained in the 21st Century

The quantity of information accessible for every level of the hamburgers voyage, first through logistics activities to acquire goods, sustain inventory as well as advertising, through its preparation procedures at every retail establishment, could be immeasurable. Nonetheless, assuming contemporary computer restrictions, a large database's utility persists maybe just a fraction of its scale is processed, and sometimes even self-evident instances imply that even limitless processing capability doesn't quite ensure people might execute verdicts obtained from information reports.

Among several outcomes from all such statistics, the method had been greater use of an online store that would link conventional store outlets alongside cloud-based mobile applications. Burger King's extension of manual booths across worldwide outlets as well as the revamping of all its electronic virtual wallets, the BK Mastercard, were both influenced by customer response, allowing the business to gain insights that influenced the purchasing experiences.

Although predictive analytics were once synonymous with introducing programs and increasing consumer exposure via various social media platforms, the potential of Artificial intelligence applications illustrates how it needs to be regarded professionally, and also that ridiculing could generate momentary entertainment but rarely a sustainable comparative edge.

- Deepshika Yadugiri

PAYREVIEW

Improving Financial Wellness

For many years, small and large businesses struggled to make basic salary and benefits choices using excel sheets. It was not only a time-consuming process, but it was also ineffective because many important factors were overlooked. These choices had a significant influence on costs and the bottom line of the company.

Anuraag Srivastav, Founder of PayReview, has directly seen the issues in the processes during his decade-long work in HR, and this is how his new journey began. He left his full-time job to develop a solution that improves the efficiency and impact of the entire process.

PayReview, a bootstrapped HR tech company, was founded to solve the complex compensation puzzle. It is now developing new products to increase sales enablement, financial wellness, and employee experience with the help of a team of dedicated professionals.

How does it work?

PayReviews' solution has been assisting people in developing the most appropriate plans for their business and budget by using different scenarios in the form of algorithms. PayReview also makes it possible for HR leaders and line managers to agree on compensation choices.

Employees will have a better experience with PayReview because the entire compensation decision-making process will be more transparent. They can access the platform to view full total rewards statements and see how salaries have changed over time. They can even look at previous promotions to get a sense of their performance and where they need to improve to get to where they want to be.

Despite the fact that PayReview has 75+ enterprise clients, it is still on a journey of experimentation and iteration as talent goals and work trends change.

- Gaddam Shashank

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The formula to ameliorate email marketing

Reasoning how forecasting analysis is and changing the game worldwide

Towards the conclusion of 2021, it was anticipated that there would be 4.1 billion emailing subscribers globally. Yes, we are referring to the capital 'B'. Due to one's personal observations, such as filtering, deleting, scrolling past few, labeling as junk mail, and so forth, marketing automation of this kind might appear like a loss of effort. Consider the firms whose communications people anticipate towards receiving or whose merchandise one would value. These were the texts and emails which seldom remain misplaced within the mailbox, and which individuals examine as well as respond to.

But how does one weopanize email marketing by being conscious of predictive analytics?

The answer can be much simpler than previously anticipated.

It isn't uncommon to use predicted modeling to enhance emails advertisements, however that's getting more pervasive nowadays, especially among e-commerce organizations. One rationale seems to be when forecasting, algorithms allow organizations to generate more informed as well as timely judgments.

One must entice their consumers to execute their inaugural transaction on their website once they have subscribed to their mailing lists.

Getting excessively aggressive, on the other hand, may drive away prospective consumers and render consumers less inclined to invest. Consequently, give customers a confirmation mail initially, and then utilize anticipatory modeling to figure exactly what they're browsing for. One could always be one stage above of their consumers' expectations owing to anticipatory statistics, therefore they will be capable of offering consumers precisely everything one desires well before they know it. It's one excellent strategy to retain consumers.

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The user will receive special material and offers as a result of receiving the newsletter. One may also take their consumer service to a further stage using data analysis. For illustration, if a business observes that a consumer purchases a specific commodity monthly, they may send customers personalized messages encouraging those to resupply their favorites.

Not merely this, even being any e-commerce company, one could use forecasting analysis to better comprehend their consumers' purchasing behaviors. One might issue consumers 'we miss you' letters to entice readers again in if they got a client who produced a transaction each week.

It's advised that they give consumers a substantial reduction to entice consumers to come back. Create distinct Premium deals to thier repeat consumers to keep them coming back.

All in all, ensuring that the business is harnessing the potential of data to catapult their company forward could be the key to their success. One may grow exponentially via their emailing promotional tactics with the guidance of data modeling, impressing their consumers and subscriber base as well as converting people into lifetime clients, that also will substantially improve existing profits.

- DeepshikaYadugiri

The Vehicle AI Bot

Tesla Bot, a humanoid robot that leverages vehicle AI, is unveiled by Elon Musk.

Elon Musk, the CEO of Tesla, revealed the Tesla Bot, a humanoid robot that uses the same artificial intelligence as Tesla's fleet of self-driving cars. During Musk's presentation, a dancer costumed as a Tesla Bot did a little odd dance, but no working version of the robot was shown.

Tesla's AI Day presentation ended with an amazing surprise, with Musk offering little information about the rather eerie robot above a few PowerPoint slides. The 125-pound robot is planned to be made of lighter materials and stand 5 feet 8 inches tall.

Its head will be equipped with the autopilot cameras that Tesla vehicles use to assess their surroundings, as well as a screen to show information. It will be controlled inside by Tesla's Full Self-Driving computer.

Tesla Bot

WORLD BUILT BY HUMANS, FOR HUMANS

FRIENDLY

ELIMINATES DANGEROUS, REPETITIVE, BORING TASKS

HEIGHT 5'8"	CARRY CAPACITY 45 LBS
WEIGHT 125 LBS	DEADLIFT 150 LBS
SPEED 5 MPH	ARM EXTEND LIFT 10 LBS

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Technical Details

5'8" | 125 LBS

SCREEN FOR USEFUL INFORMATION

LIGHTWEIGHT MATERIALS

HUMAN-LEVEL HANDS

40 ELECTROMECHANICAL ACTUATORS

ARMS	NECK
12	2
TORSO	HANDS
2	12
LEGS	
12	
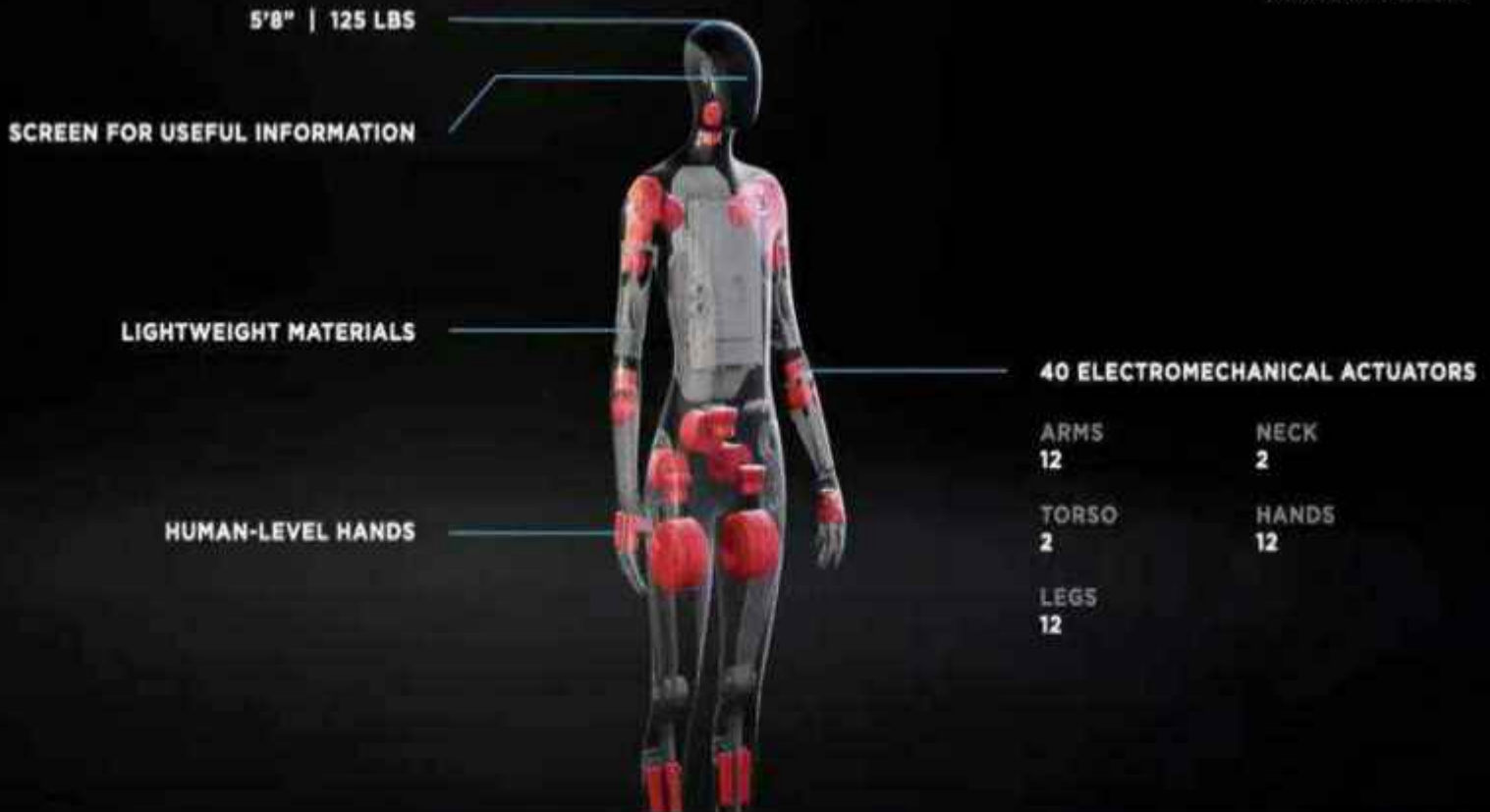
Musk took care to stress out that you could both outpace and overpower the Tesla Bot on three slides that listed the robot's planned specs. He has previously been against the use of robots as warfare and warned of the dangers that artificial intelligence (AI) might bring, calling it the "greatest peril we face as a society." He supposed the hazards are minimized if they're very sluggish, easy-to-overpower robots.

The Tesla Bot, according to one presentation, would remove dangerous, redundant, boring jobs, thereby giving an example, saying the robot might be instructed to "go to the market and acquire... the following goods". Although such work is not extremely hazardous, you may find it monotonous and uninteresting.

It's difficult to estimate how far off such a future is, but there's a big difference between showing off a few PowerPoint presentations and deploying a functional humanoid robot. It will most certainly be a long time until you can acquire your fresh food from a Tesla Bot, but Musk stated that a prototype will be available the year after.

TESLA OPTIMUS

- Sai Deepak Konreddy

An era of data analytics

bodo.ai

Bodo.ai, the high-performance parallel computation platform for data workloads, said today that it has raised $14 million in Series A funding headed by Dell Technologies Capital, with Uncorrelated Ventures, Fusion Fund, and Candou Ventures also participating.

Bodo was founded in 2019 with the objective of making Python a first-class, high-performance, and production-ready platform for sophisticated data analytics and machine learning apps. With the simplicity and effectiveness of native Python, the company's revolutionary compiler technique helps businesses to address difficult, substantial data and machine learning tasks at exceptional performance and low cost. Bodo combines previously impossible supercomputing-like efficiency with linear concurrent adaptability, having been verified at 10,000+ cores and petabytes of data.

Bodo users may gain a new standard of performance and financial sustainability for large-scale ETL, Data Prep, Feature Engineering, and AI/ML Model training by avoiding the need to use additional libraries or APIs or rewriting Python into Scala, C++, Java, or GPU code to maintain the sustainability.

Big data is growing, and in today's data-driven industry, corporate clients require pace when it comes to data analytics. Conventional huge data processing remedies, such as additional libraries and frameworks, fail to solve the core scalability and performance difficulties. Not only does Bodo handle this, but it does it in a way that does not necessitate altering the initial application code says Behzad Nasre, co-founder and CEO of Bodo.ai.

Bodo.ai Raises $14 Million in Series A Funding to Revitalize Data Analytics and Machine Learning Efficiency, Productivity, and Magnitude

Python is the second most widely used programming language, owing to its appeal among AI and machine learning engineers and data scientists. Most developers and data engineers who use Python for AI and ML algorithms, on the other hand, are frustrated by the language's poor performance when dealing with huge amounts of data. Even those that utilise plugins and libraries discover that their performance falls well short of Bodo's. By utilising Bodo instead of a major cloud data platform, a big retailer recently realised a 100x legitimate significant improvement for mission-critical program metric monitoring tasks and saved over 90percent on managed hosting expenses.

Bodo bridges the performance-vs.-simplicity divide by offering computation speed and runtime optimization without the need to rewrite applications. Large number of Python developers and data scientists will be able to do near-real-time analyses, allowing clients to gain new income prospects.

- Sai Deepak Konreddy

Game changer, data analytics
Automation for the benefit of businesses

Due to the lack of awareness, understanding and application of data analytics, opportunities for better or best application in businesses is missing. If applied appropriately, companies can enhance the output by using data analytics in various fields. Some of the most important and needed data analytics applications include customer experiences, inventory management, employee reports, etcetera using APIs (Application Programming Interface) and POS (Point-of-Sale) software development.

The automation and optimization of the businesses by application on inventory can be done as it provides alerts, hideouts, notifications, and checks for the stocks without human intervention and error. Data analytics can be used to analyze sales as it helps the businesses understand the trends regionally and globally to enhance their sales and fathom the reason for the sales. This also helps in managing the inventory during the peak. The tracking of employee performance becomes easy. The analysis can be used to deploy more employees during the peak hours of sales and seasons. Customer segmentation and personalization can be done quickly based on the info collected via online stores and other sale channels.

Data analytics is a boon to businesses as it enhances the quality of analysis and shows appropriate solutions. The reduced human intervention makes room for no error as the computer, cloud and IoT (Internet of Things) give optimum results.

– Meghana C

SAP

SAP announced that it had acquired the intellectual property of SwoopTalent. SwoopTalent is a platform that automatically links companies' talent systems and data for analytics, migrations, and machine learning. SwoopTalent's technology will be integrated into SAP's SuccessFactors Human Experience Management Suite as part of the purchase, giving SAP customers a view of human resources initiatives such as projects, fellowships, internal employment, mentorships, and courses.

SwoopTalent, based in San Francisco, California, was founded in 2012 by Satish Sallakonda and Stacy Chapman and offered a platform that collects, analyses, and trains data from different human resource systems and workflows using natural language processing, AI, and machine learning. SwoopTalent gives companies real-time views of their employees' skills, capabilities, interests, and learning preferences, allowing them to match individuals to internal initiatives, learning courses, and more.

According to Amy Wilson, SAP's SVP of product and design, the platform's talent and AI algorithms create employee profiles by gathering data from various sources while taking into account local regulations as well as employees' consent and preferences regarding the types of information they want to share.

SAP'S latest acquisition:

SwoopTalent is SAP's newest acquisition, following the German giant's $1 billion purchase of Signavio, a collaborative business process design, management, and analysis provider. SAP acquired omnichannel marketing startup Emarysis in 2020, following its $8 billion acquisition of Qualtrics, a platform for producing web surveys.

By making workforce data more trustworthy and available, they help the customers get significant insights about their employees and future-proof their businesses by effectively upskilling, reskilling and redeploying staff. SwoopTalent was founded by industry thought leaders with a track record of using data, machine learning, and analytics to improve human resources and make businesses more competitive.

- Gaddam Shashank

swoop

AI-Powered HR Platform

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Big Data in BANKING

Prime challenges for Banks:

- Scattered Data
- No Single View of the Customer
- Targetting / Customer Analytics
- Fraud Identification
- Governance

Key areas for application of Analytics in Banks:

- Risk Analytics
- Customer Experience
- Operations Optimization

71% of banking and financial firms globally believe Analytics creates competitive advantage.

26% increase in Big data spends estimated for **2015-2019.**

60% of North American financial institutions believe Big Data Analytics drives competitive advantage Over

90% believe Big Data initiatives determine winners of the future.

Big Data value to Retail Banking industry estimated at **£6 billion** over next 5 years.

Only **37%** banks have first-hand experience implementing Big Data technology for operations and consumer efficiency.

Only **41%** banks use advanced Big Data tools (Predictive/Real-Time Analysis & Data Visualization) for actionable insights.

Companies taking comprehensive approach to data reap additional **60%** return on data assets.

72% of respondents in financial services sector believe that big data analytics has positive impact on rate of innovation.

Image source: https://www.aureusanalytics.com

Big data, big investments
Data an asset

The banking and telecommunication industry is always at an advantage with big data as unpredictability, customer satisfaction, productivity enhancement, and output can be studied. Big data stands as an asset to these industries as it is easy to understand the market and thereby carry out the operations and improvise them time and again.

They are leveraging big data to make decisions in real-time in the context of the Indian market. The findings are much faster than the traditional ways. The investment in big data and understanding its uses is necessary. The banking and telecommunication industries contribute 30 percent to big data and its analysis in 2021. Artificial Intelligence (AI) in these sectors help in fraud detection, and optimization and thus the investment is justified.

Cost optimization and business resiliency can be achieved in any business, not just banking and telecommunication. The decision to invest in analytics is always wise as it can interpret the results subtly to the companies to flourish depending on it.

- Meghana C

Data analytics in the financial services industry
The use of Data in Finance

Imagine being able to see everything all of the time. Every single time. Every client engagement. Every component in your supply chain that moves. Every financial transaction, no matter where in the world it takes place.

Imagine rapidly processing all of that data and applying the insights to improve customer service, produce speedier products, or detect fraud.

Imagine using that Data to glimpse into the future, allowing you to react to events before they occur. To avoid any misfortunes. To foresee and prevent financial failures.

Data Analytics brings this SUPERPOWER!

Today's financial institutions are pushed to use analytics and data-driven capabilities to promote growth and profitability, cut costs and improve efficiencies, drive digital transformation, and support risk and regulatory compliance requirements.

Data Analytics in Banking Industry:

Banks ensure that they are providing the finest services for their customers by better understanding them and trading activities, resulting in increased levels of retention and acquisition.

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Data analytics will enable banks to build new business models and revenue streams by collecting data from customers.

Data Analytics in Insurance Industry:

Insurers can use new data sources to target better-intended clients with specific – and potentially more suited – products, allowing them to create offers based on what people will need in the future and combining these with technological and regulatory advancements. Insurers can now examine the risk profiles of their applicants in considerably greater depth thanks to data analytics, which should result in better-informed underwriting decisions and premium calculations that are more accurately aligned with the associated levels of risk.

In conclusion,

Data can help businesses grow with the help of data-driven business decisions and risk management. Data analytics also allows businesses to discover more opportunities in the market and create efficient and smart organisations.

- R Varshitha Reddy

Data analytics and investment banking

JPMorgan Chase led a $50 million funding round for Aumni, an analytics platform for private capital markets, indicating investment firms' demand for artificial intelligence-powered financial analytical tools.

Aumni's AI software, when combined with human expertise, can extract and analyse deal data buried in investment contracts and legal agreements, revealing metrics such as investment rights, fund performance, and emerging investment patterns. Customers include venture capital firms, family offices, corporate venture firms, and law firms, who purchase subscriptions to the company's software.

Aumni, based in Utah, claims to have analysed more than 100,000 investment transactions since launching its flagship product in 2018, giving previously inaccessible information to customers across the private capital markets.

Other analytics firms, such as Pitchbook Data and CB Insights, are assuming a more significant role in supplying investing metrics in the private market due to Aumni's funding. Aumni's solutions are unique because their insights derive from executed contracts, whereas other firms rely on public records and self-reported survey data. Aumni clients provide the deal contracts as part of their software-as-a-service contract. Such agreements could include information on the lead investor's ownership position in the round and information on the round's stock and convertible note transactions. Aumni makes money by selling software on a subscription basis, with fees based on customer-specific factors.

Aumni said it would utilise the funds to expand its offering to limited partners, law firms, and company founders, among other things, as there are more deals to analyse in today's market.

- R Varshitha Reddy