

DSCNEXT
DATA SCIENCE CONFERENCE

DATA SCIENCE NEXT Magazine

[Shaping Tomorrow's
Data Landscape]

**DATA SCIENCE NEXT
CONFERENCE
EUROPE 2025.**

**7-9 MAY, 2025
[AMSTERDAM]**

"Unlocking the Future:
Join Us at the DSC
Next Conference to
Explore the Cutting-
Edge Innovations in
Data Science!"

#DSCNEXT



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Table of Contents

01	Editor's note
02	CEO's message
03	From the founder
04	Industry news
05	Articles
06	Cover story
07	Companies attending
08	Logo partners
09	Supporting media partners
10	Principal media partners
11	Exhibiting companies
12	Investors and vc firms

From the Editor

Welcome to the debut issue of DSC Next!

We're thrilled to introduce you to our brand-new magazine, crafted to be your go-to source for the latest in data science. As we launch this first edition, we're also gearing up for our very first conference, DSC Next Summit, and we couldn't be more excited.

This issue and the upcoming Summit are both milestones in our journey to explore and showcase the innovations that are transforming industries worldwide. At the Summit, you can look forward to engaging keynotes, interactive workshops, and invaluable networking opportunities. It's an event designed to spark ideas and foster connections, bringing together the brightest minds in data science.

In these pages, you'll find a blend of insightful articles, expert opinions, and real-world success stories.

Whether you're a seasoned expert or a curious newcomer, this magazine is your gateway to the industry's most important conversations and We hope this magazine will not only inform but also inspire you as we navigate the future of data science together.

Thank you for joining us on this exciting adventure. Here's to exploring new horizons and making great strides together!

A handwritten signature in blue ink that reads "Walesha". The signature is written in a cursive style and is positioned above a horizontal line. Below the line, there are two small dots.

Editor-in-Chief
DSCNext Magazine

CEO MESSAGE

Welcome to the inaugural issue of DSC Next.

As we launch this magazine alongside our first DSC Next Summit, we embark on a journey that reflects the profound impact data science has on our world. This moment is a reminder of the boundless potential that lies within data—its power to illuminate, transform, and inspire.

In a landscape where data is both abundant and complex, our role is to navigate and interpret these vast streams of information with insight and creativity. DSC Next aims to be a beacon in this journey, providing a space where the fusion of technology, intellect, and human experience can spark innovation and drive meaningful change.

The DSC Next Summit embodies this spirit, serving as a gathering of forward-thinkers dedicated to exploring the evolving frontier of data science. It is a testament to our commitment to not just understanding data but to leveraging it in ways that advance our collective progress.

As you explore the pages of DSC Next, I hope you find inspiration in the stories and insights shared, and that together we can embrace the transformative possibilities of data science, forging a path toward a future enriched by knowledge and discovery.

Thank you for joining us on this exciting voyage.

Warm regards,



CEO, DSCNEXT



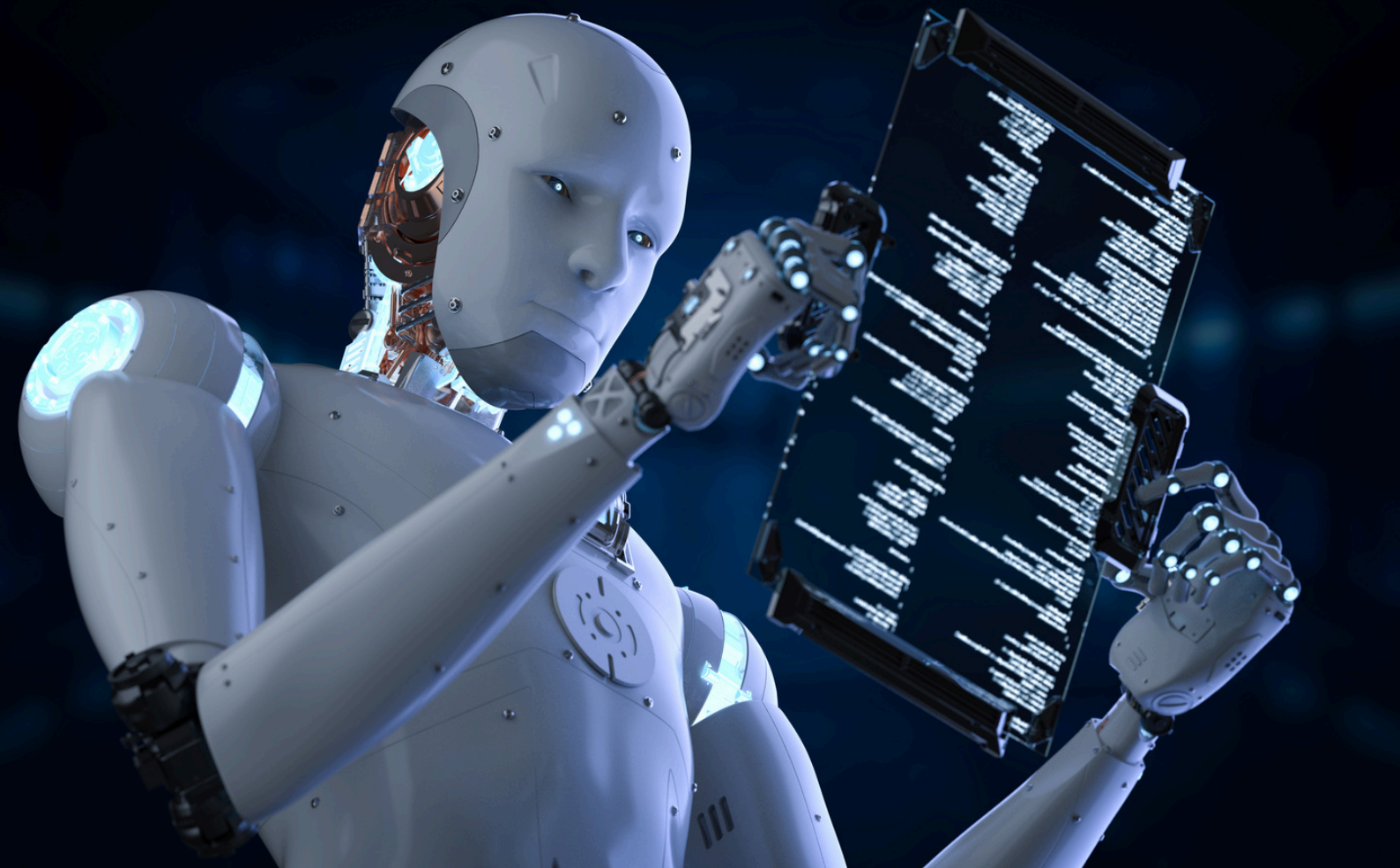
Brief Overview



The inaugural DSC Next Summit is set to take place from May 7-9, 2025, in the vibrant city of Amsterdam, organized by Next Business Media. This debut event promises to be a landmark gathering, held at a premier venue that embodies the innovative spirit and dynamic energy central to the Summit's vision.

Attendees can look forward to an engaging program featuring a diverse lineup of thought leaders and industry pioneers. The Summit will include keynote speeches, panel discussions, and hands-on workshops designed to provide practical skills and foster collaborative learning. Additionally, there will be ample opportunities for networking, allowing participants to connect with peers, share ideas, and delve into the latest advancements in data science.

In preparation for this landmark event, DSC Next magazine will offer insightful articles, feature stories, and expert analyses to provide readers with a comprehensive understanding of the trends and technologies shaping the industry. This magazine aims to inform and inspire, setting the stage for an exciting and impactful Summit.



INDUSTRY NEWS

1. California Leads the Charge: AI Models Act SB 1047 Sparks Oversight Revolution

The California Assembly's AI Models Act (SB 1047), introduced by Senator Scott Wiener, aims to establish comprehensive regulations for AI systems in the state. The bill requires companies to disclose when AI is used in critical decision-making areas like finance, healthcare, and employment, and mandates assessments to prevent bias and discrimination. It also includes a "kill switch" provision, designed to immediately

halt AI systems if they threaten public safety or fairness or unforeseen risks. Governor Gavin Newsom's strong backing highlights the bill's importance, aligning it with California's goals of innovation and ethical tech use. Supported by civil rights groups and AI experts, SB 1047 is set to position California as a leader in responsible AI governance, with passage expected by late 2024.

2. OPENAI'S VALUATION SET FOR \$100 BILLION MILESTONE FOLLOWING RECENT FUNDING

“OpenAI Hits \$100 Billion Valuation After New Investments, Reinforcing Its Leadership in AI Innovation”

OpenAI's latest funding round, poised to elevate its valuation to \$100 billion, has secured a major investment of around \$1 billion from Thrive Capital. This funding is expected to enhance infrastructure, accelerate research, and expand OpenAI's global reach. Sarah Friar, OpenAI's CFO, emphasized that the capital will primarily support the development of GPT-5 and Project Strawberry, aimed at improving reasoning capabilities and language models .

Sam Altman, OpenAI's CEO, expressed optimism about the funding, stating it will significantly advance OpenAI's mission to push the boundaries of AI technology. Additionally, Microsoft has been a key player, having invested over \$13 billion to integrate OpenAI's innovations into its products and cloud services. These investment figures highlight the strong belief in company's potential.

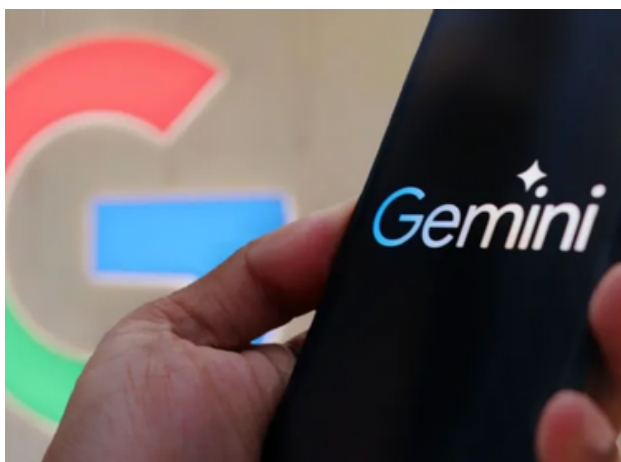


GOOGLE UNVEILS GEMINI LIVE:

*A Fresh Take on AI Conversations,
Ready to Rival ChatGPT Voice*

Google Gemini Live, launched as Google's response to ChatGPT Voice, offers iOS and Android users a "free-flowing, hands-free conversation" with the AI chatbot. Announced at the Made by Google event on August 27, 2024, it is designed to facilitate brainstorming, meal discussions, and continuous dialogue that users can interrupt as needed. Initially available in English to Gemini Advanced subscribers on Android devices including Pixel smartphones, Samsung Galaxy phones, and OnePlus devices, it will expand to more languages, locations, and iOS support soon. Following its debut at Google I/O, Gemini Live will later include multimodal features, allowing interaction while using the phone's camera. The Gemini Advanced subscription costs \$19 per month, though it's free for Pixel 9 series owners for the first year.

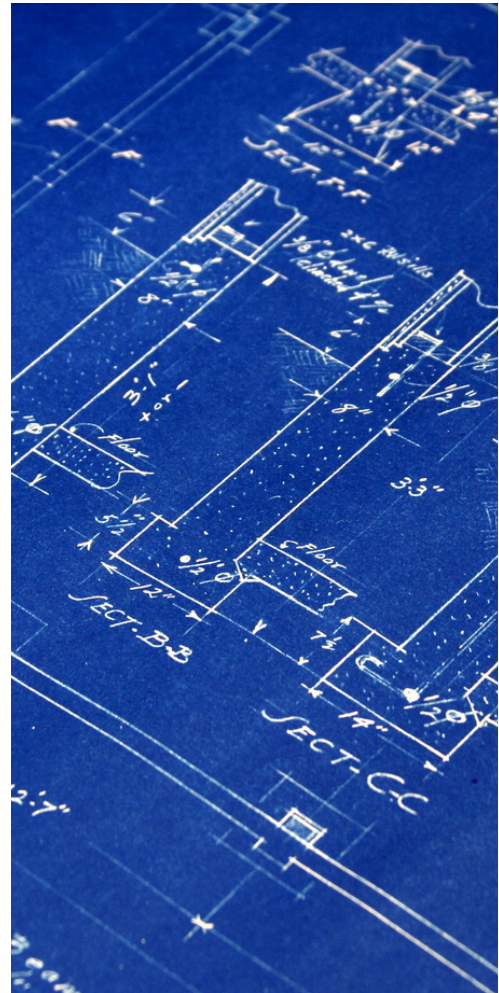
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NIM AGENT BLUEPRINTS: THE WWT AND NVIDIA POWER PLAY IN ENTERPRISE AI

World Wide Technology (WWT), in partnership with NVIDIA, has launched a groundbreaking initiative to expedite the development and deployment of generative AI applications in enterprises. The collaboration introduces NVIDIA NIM™ Agent Blueprints, pre-trained, customizable AI workflows designed to enhance business operations across industries. This launch, built on an eight-year collaboration between the companies, leverages WWT's AI Proving Ground, enabling enterprises to experiment with and scale AI solutions rapidly. NVIDIA NIM Agent Blueprints offer workflows tailored for critical applications, including digital human customer service,

virtual drug discovery, and multimodal PDF data extraction. "Generative AI is advancing at lightspeed," said Jensen Huang, NVIDIA's CEO. "With the NVIDIA AI Enterprise toolkit and our expansive partner ecosystem, enterprises can customize open-source models and deploy AI seamlessly." WWT's co-founder and CEO, Jim Kavanaugh, emphasized the initiative's potential for business transformation, stating, "WWT's AI Proving Ground, equipped with NVIDIA NIM Agent Blueprints, offers a comprehensive resource for our clients to experiment, validate, and scale AI solutions." Leading global system integrators, including Accenture and Deloitte, alongside tech giants like Cisco and Dell, are poised to deliver these AI solutions, marking a significant leap in the enterprise AI landscape.



It's Glowtime': Apple Teases AI-Powered iPhone 16 Unveiling

Apple is poised to make a major announcement on September 9 at its Steve Jobs Theater, unveiling the much-anticipated iPhone 16. With the event intriguingly branded "It's Glowtime," speculation is rife that AI will take center stage, marking a significant evolution in Apple's smartphone technology.

The iPhone 16 is expected to showcase advanced generative AI features, building on the AI advancements revealed at Apple's Worldwide Developers Conference in June. These include a revamped Siri with enhanced capabilities, such as recalling old photos, providing more contextual information, and adapting to user preferences.

This shift reflects Apple's strategy to deepen AI integration into its products to maintain its competitive edge. Angelo Zino, a technology analyst at CFRA Research, suggests that the AI enhancements will be part of a gradual evolution rather than a sudden leap. "This is going to be more of an evolutionary process, rather than some big cyclical, iPhone cycle," Zino said.

While the iPhone 16 is expected to introduce these AI features, the full range of capabilities may not be available until 2025. Apple's approach aims to leverage AI to revitalize its market presence, particularly as it navigates challenges in key regions like China. As competitors advance their AI offerings, the iPhone 16 could set new standards in the industry, shaping the future of smartphone technology.



NTT and Chunghwa Telecom Light Up First Cross-Border All-Photonics Network



In a landmark achievement, Chunghwa Telecom (CHT) and NTT Corporation have activated the world's first International IOWN (Innovative Optical and Wireless Network) All-Photonics Network (APN) between Taiwan and Japan. This cutting-edge network, born from an agreement signed in October 2023, connects Chunghwa Telecom's headquarters in Taipei with NTT's Musashino R&D Center, spanning 3,000 km and achieving ultra-low latency of just 17 milliseconds one-way.

The collaboration highlights both companies' strengths in optical and wireless transmission technologies. The 100 Gbps optical path, which achieves a 33.84-millisecond round-trip time, represents a significant breakthrough in minimizing latency while ensuring stable, jitter-free communication. Additionally, the network architecture supports the Open All-Photonics Network Functional Architecture (OAA) published by the IOWN Global Forum, enabling seamless interconnection across devices.

Looking ahead, Chunghwa Telecom will demonstrate low-latency interactive entertainment at the NTT R&D Forum 2024, while NTT plans to provide disaster recovery services and support smart factories in Taiwan's semiconductor sector.

NTT President and CEO Akira Shimada emphasized, "This connection could accelerate Japan-Taiwan industrial collaborations, setting the stage for global IOWN services."



Insights & Innovations

1. Edge Computing in Action: Real time data Processing

Edge Computing's Growing Industrial Footprint

Edge computing is transforming data processing by bringing computation closer to where data is generated, enabling real-time analysis. Unlike traditional cloud computing, which relies on distant data centres, edge computing processes data locally, dramatically reducing latency and allowing for rapid decision-making. This technology is being widely adopted across various industries. NVIDIA offers advanced edge computing solutions through its AI-driven platforms, which companies like BMW leverage to enhance real-time decision-making in autonomous vehicles.

Real-World Edge Computing Applications

Amazon Web Services (AWS) supports edge computing for GE Healthcare, facilitating swift analysis of medical data to elevate patient care. Microsoft's Azure IoT Edge is harnessed by Coca-Cola to optimise production lines, ensuring seamless efficiency. Dell Technologies provides robust edge infrastructure utilised by BP in the energy sector to monitor and optimise drilling operations in real-time.

Additionally, Philips integrates edge computing into its HealthSuite platform, enabling the real-time processing of critical health data at the point of care, which enhances patient monitoring and supports timely clinical decisions. Edge computing is poised for substantial growth with the expansion of 5G and ongoing technological advancements.

The Future Potential of Edge Computing

Future projections indicate that it will be pivotal in enabling innovations such as advanced robotics and enhanced remote healthcare through real-time data processing. This technology's ability to deliver immediate data analysis is crucial across various sectors, improving efficiency and responsiveness. As edge computing continues to evolve, it is expected to drive significant advancements in industries like healthcare, manufacturing, and energy, fostering greater operational efficiency and innovation.



Supercharging Analytics with AI: Augmented Analytics

Understanding Augmented Analytics

In the domain of data analytics, augmented analytics represents a significant evolution by integrating artificial intelligence (AI) to enhance data interpretation and decision-making. This approach optimizes traditional analytics by automating critical functions such as data preparation, pattern detection, and insight generation, thus improving both speed and precision.

How AI Enhances Data Interpretation

AI-driven algorithms meticulously analyze vast datasets, uncovering patterns and trends that may not be apparent to human analysts. These algorithms then produce predictive models and actionable insights, which are conveyed through sophisticated dashboards and visualizations. For example, platforms like *Tableau* and *Microsoft Power BI* embed AI capabilities to streamline data exploration and insight extraction, significantly reducing manual effort. *Salesforce*'s Einstein Analytics, in particular, utilizes AI to predict customer behaviors and refine marketing strategies.

Top Platforms Driving Augmented Analytics

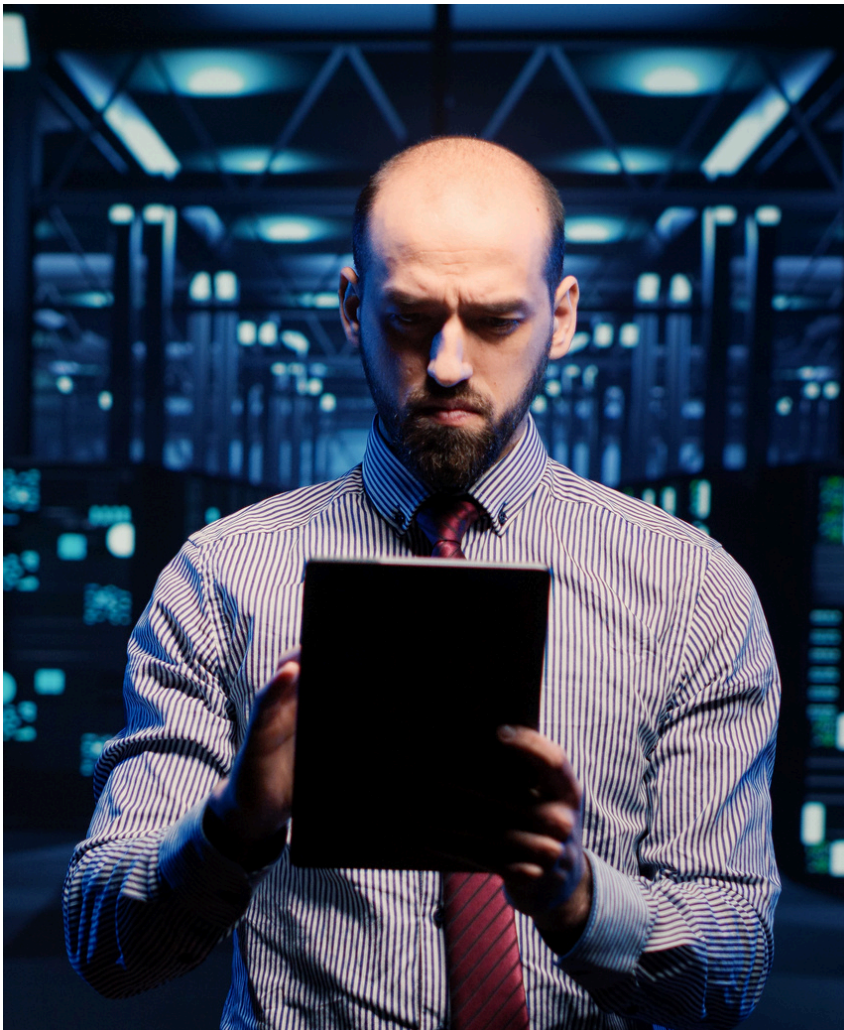
Noteworthy applications include *IBM Watson Health*, which leverages AI to support clinical decision-making, and **SAS*, which applies AI to enhance risk management and fraud detection in finance. Looking forward, augmented analytics is anticipated to advance with improved predictive accuracy, increased automation, personalized analytics experiences, and fortified data security. As AI technology continues to evolve, it will further refine business intelligence, driving more strategic and informed decision-making across diverse industries.



AlaaS and Business operations: Entering a new Era of smart Automation

Introduction to AlaaS

Artificial Intelligence as a Service (AlaaS) represents the intersection of human ingenuity and machine capability, where automation becomes not just a tool but a partner in the evolution of business. By offering AI capabilities through cloud-based platforms, AlaaS empowers companies to seamlessly integrate advanced tools like machine learning and predictive analytics into their operations, transcending the limitations of traditional methods.



AlaaS and Business operations: Entering a new Era of Smart Automation

AlaaS and Smart Automation

This form of smart automation is about more than efficiency—it's about enabling businesses to think and act faster, making decisions in real-time with unprecedented accuracy. Providers such as IBM, Microsoft, and Google lead this charge, offering AlaaS solutions that allow companies like Siemens to automate predictive maintenance, preventing failures before they happen. Procter & Gamble uses AI-driven forecasting to align the inventory driver of innovation, pushing the boundaries of what's possible in business operations. With market demand, while startups like Zebra Medical Vision automate medical imaging analysis, transforming healthcare delivery.

Key Providers in the AlaaS Market

As AlaaS becomes increasingly prevalent, with the market expected to exceed \$500 billion by 2025, the nature of smart automation will deepen, offering more specialised, industry-specific solutions. AlaaS is set to become an essential driver of innovation, pushing the boundaries of what's possible in business operations.





NLP in Action: Transforming Business Strategy with Language Intelligence

The Role of Natural Language Processing in Modern Enterprises

Natural Language Processing (NLP) has become a pivotal technology in the arsenal of modern enterprises, transforming how businesses interact with data and customers. As a subset of artificial intelligence (AI), NLP enables machines to understand, interpret, and generate human language, making it an invaluable tool for extracting insights from unstructured data such as emails, social media posts, and customer reviews.

Advanced Applications of NLP

For industry experts, the implications of NLP extend far beyond simple text analysis. Advanced NLP techniques, such as sentiment analysis, entity recognition, and language generation, allow businesses to derive actionable intelligence from vast amounts of text-based data. This capability is particularly beneficial in fields like customer service, where NLP-powered chatbots and virtual assistants provide real-time, personalized support, reducing response times and improving customer satisfaction.

The integration of NLP with other AI technologies, such as machine learning and deep learning, further amplifies its potential. These synergies are driving innovations in areas like automated content creation, where NLP generates reports, summaries, and even creative writing, freeing up human resources for more strategic tasks.

However, the adoption of NLP is not without challenges. Issues such as language ambiguity, contextual understanding, and the need for large annotated datasets require sophisticated solutions. Nonetheless, as NLP technologies continue to evolve, their ability to enhance business processes and drive innovation is becoming increasingly indispensable.

For industry leaders, investing in NLP is not just about staying current; it's about positioning their organizations at the forefront of the digital transformation wave.

Case Studies Demonstrating NLP's Impact

A recent example of NLP's impact is its role in healthcare. Companies like IBM Watson Health are using NLP to analyze clinical notes, helping physicians identify patterns and correlations that improve patient outcomes. Similarly, Microsoft's Azure Cognitive Services has been deployed to enhance legal document review processes, automatically extracting key information and summarizing large volumes of text with high accuracy.

NLP's Influence on Data Analytics

NLP is also revolutionizing data analytics. By automating the processing of natural language data, companies can uncover patterns and trends that would otherwise go unnoticed. This leads to more informed decision-making and enhances strategic planning. For instance, predictive text analytics powered by NLP can forecast market trends based on historical data, giving businesses a competitive edge in anticipating consumer needs.

Unleashing the Power of Social Media Analytics: A Game Changer for Industry Leaders

The Importance of Social Media Analytics

In an era where digital presence can make or break a brand, social media analytics has emerged as a critical tool for industry leaders. As platforms like Facebook, Twitter, LinkedIn, and Instagram become primary channels for customer engagement, businesses are increasingly leveraging analytics to extract actionable insights from the vast amounts of data generated daily.

Understanding Social Media Analytics

At its core, social media analytics involves the collection and analysis of data from social networks to inform business decisions. This process goes beyond mere metrics like likes, shares, and follower counts. Advanced analytics tools now enable companies to delve deeper into consumer sentiment, track engagement trends, and measure the effectiveness of marketing campaigns in real-time.

Strategic Benefits of Social Media Analytics

For industry experts, the strategic advantage of social media analytics lies in its ability to provide a comprehensive view of the market landscape. By analyzing competitor activities, identifying emerging trends, and understanding audience preferences, companies can refine their strategies to stay ahead of the curve. For instance, sentiment analysis allows brands to gauge public opinion on their products or services, enabling swift adjustments to marketing approaches and product offerings.



The Role of Predictive Analytics

Moreover, predictive analytics, powered by AI and machine learning, is transforming how businesses anticipate consumer behaviour. By analyzing historical data and identifying patterns, companies can forecast future trends and tailor their strategies accordingly. This proactive approach not only enhances customer satisfaction but also drives revenue growth.

Challenges in Social Media Analytics

Despite its advantages, the field of social media analytics is not without challenges. The sheer volume of data, coupled with the rapidly evolving nature of social media platforms, requires sophisticated tools and expertise to navigate. However, for those who can harness its potential, social media analytics offers a powerful pathway to informed decision-making and sustained business success.

Embracing Social Media Analytics for Competitive Advantage

In today's hyper-connected world, industry leaders must embrace social media analytics as a vital component of their strategic toolkit to remain competitive and relevant.

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