

TECHLORE

“Insider Tips to Make Your Business Run Faster, Easier and More Profitable”

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"As a business owner, you don't have time to waste on technical and operational issues. That's where we shine! Call us and put an end to your IT problems finally and forever!"
 -Ruben Diaz
 NeoLore Networks

Innovative AI Technologies

Artificial intelligence has changed our virtual world. Artificial intelligence has influenced every industry, making integrating technology with every sector of society easier. Moreover, with the internet, technological advancement has become seamless.

Even though artificial intelligence was a stand-alone technology for over two decades, with its popularity, each sector has adopted it, making multiple industries' processes smoother. With its lasting effects on our virtual lives, from everyday tasks such as content creation and shopping to innovative events such as medical research and space exploration, AI has become the most transformative thing in the present era.

A Gartner study revealed that in 2022, the revenue from artificial intelligence software reached approx. \$62 billion. This is a record to date, with a 21.3% increase from the numbers of the previous year. Moreover, a McKinsey survey stated that more than 50% of companies use AI in their businesses.

Therefore, it is true that AI, with other emerging technologies, will significantly influence our lives and businesses. Here, we discuss the top artificial intelligence technologies of 2022.

LivePerson

Conversational AI enables companies to automate simple customer service processes through text messaging and online chat, making it more straightforward for trained agents to focus on problems that require a human touch.

In the previous year, the company introduced the integration of Conversational AI with commerce systems while broadening its focus on after-purchase support. For example, Dunkin has added QR codes to their food packaging at over 9000 stores while allowing customers to sign up for their loyalty program by communicating with a bot.

Furthermore, commerce isn't the only sector where AI has left its influence. Bella Health, a COVID-19 screening bot used in 500 locations, detects infections before employees spread them to their colleagues. Overall, there has been a 45% yearly increase in automated conversations using LivePerson technology.

Natural Language Generation

Machines process and communicate differently compared to the human brain. It is a smart technology that transforms structured data into a native language. The algorithms programmed in the machines

convert the data into the user's desirable formats. Natural language generation is a branch of AI that enable content developers to automate their operations and deliver in the desired format.

Furthermore, content developers can use automated content to promote it on different media platforms to reach their audience, thus reducing human interaction as the users will automatically receive the desired format. Users can view the results in graphs, charts, and more.

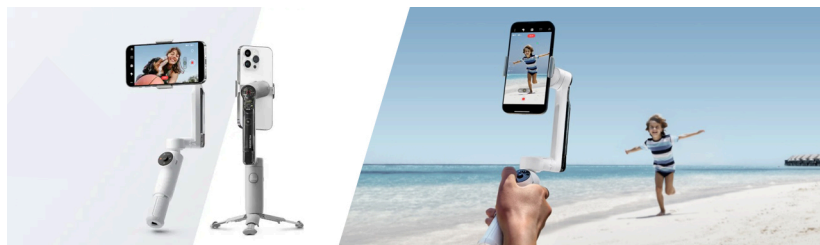
Virtual Agents

This technology has become a valuable tool for instructional designers. It is a computer application that communicates with humans. Mobile and web

applications enable chatbots to act as customer service representatives to interact with humans to resolve problems. Alexia from Amazon makes shopping easy for customers, while Google assistant organizes meetings.

Linksquares

It uses machine learning to automate the process involved in understanding contracts while reducing the need to manually keep everything, including legal obligations, terms and conditions, and renewal dates. This allows the customers to streamline privacy audits, risk assessments, and other processes that require a comprehensive review.



Insta360 Flow

Elevate your smartphone into a content creation tool with Insta360 Flow, the AI tracking smartphone stabilizer. Just unfold it once and go—no need to untwist or even press the power button. Just take your phone and

Flow on the go. No other gear needed. Flow folds up compactly to easily fit into your bag, so you can capture life's best moments on the fly. Get yours at store.insta360.com

What is AI Ethics? Can We Build Ethical Principles in AI?

AI ethics is a set of guidelines used to advise the designs and outcomes of artificial intelligence. It includes all the techniques and principles that should be informed for artificial intelligence's developmental and responsible use. Due to its increasing demand, organizations are developing certain AI codes of ethics.

The main purpose of providing AI ethics is to acknowledge the policy statement to all the stakeholders along with all the guidance that can assist them during any ethical decision regarding the use of AI. These ethics illuminate all the risks and advantages of AI tools and establish a complete guideline for their responsible use. Keep reading this article to learn how to build ethical principles in AI.

Establishing Ethical Principles in AI

If you are willing to have experimental research or an algorithmic guide, then there are some ethical principles that you should develop in your AI system to work efficiently within the AI guidelines. These are:

Reliability

AI systems should operate within design parameters to make repeatable, trustable, and ethical predictions. This will help to service or replace the assets when it is failing or having any problems in functioning.

Beneficence

This principle is a healthcare ethic that ensures that AI will not harm any of its users and provide all the benefits to everyone despite all

the biases of race, gender, color, etc. It will try its best to provide good to people and improve its given system in the future.

Justice

This principle is necessary to deal with the issues regarding fairness and equality. It will make decisions based on equal shares, individual needs, merit, and societal contributions.

Safety

It's one of the most important principles that should be established in the AI system to provide safety to every individual's assets. It ensures that AI is not a threat to people's physical or economical safety and mental integrity. Moreover, all AI tools and important user assets should be protected from cyber threats.

Interpretability

AI should be responsible for all the decisions it makes and can explain how it made specific predictions or decisions. Organizations should have clear explanations of all the algorithms and data AI is looking for. AI is also responsible for explaining all its actions in high-risk cases.

Lawfulness

This principle is important to establish to ensure all the stakeholders obey all the rules and regulate the AI system at different levels.

How Does Uncertainty Quantification Help Avoid ML Prediction Mistakes in High-Stakes Settings

Machine learning algorithms are becoming more prevalent in high-stakes healthcare, finance, and aviation industries. These domains, however, involve complex and dynamic systems that are difficult to represent adequately, resulting in inaccurate predictions and costly errors.

Uncertainty quantification (UQ) addresses this problem, which provides a more accurate and deeper understanding of model predictions. Experts build UQ with a foundation in mathematics, statistics, and engineering.

Using Uncertainty Quantification (UQ) to Manage Uncertainty in Machine Learning Predictions

Even the finest models, however, are prone to uncertainty, which

insufficient or noisy data, limited data, or intrinsic randomness in the system can cause.

UQ helps manage this uncertainty by estimating probability distributions of model predictions, enabling decision-makers to comprehend probable outcomes and associated risks; this is especially effective when rapid choices or limited data are required.

UQ can detect scenarios where a model is likely to make a mistake. If there is a significant ambiguity surrounding a forecast, relying on human judgment or gathering more evidence may be preferable.

In conclusion, UQ effectively limits the hazards of machine learning predictions in high-stakes situations.

Cyber Security Training for Businesses

Employees can be a weak connection in a fight against cyber attacks. The best way in which you can protect your business and prevent a cyberattack is by training your employees about cybersecurity repeatedly.

Companies can organize training sessions through onboard talks, e-learning, and regular seminars about how they can identify possible threats. These measures will help your employees avoid phishing and any other type of scam.

Cybersecurity for your business starts with best practices training and education about digital security. Educating all your employees should be high priority. Even when you hire new employees in your team or if you update practices, you need to refresh the training sessions.

Enable Focus Mode

Notifications are an integral part of our day-to-day life. However, it can be problematic when you receive way too many notifications from several different apps and websites. Just like how your mobile device has a DND mode, your Windows 11 PC comes with a Focus mode. This mode lets your device receive notifications but, without displaying them to you or making alert sounds.

1. Press the Window key to pull up the Start menu and type in Focus.
2. Click on it when you spot the result.
3. You can click on the Start Focus session button and adjust the session's duration.
4. You can also click on Notifications to disable notifications and enable the DND mode.

In-Context Learning in Large Language Models Like Chat GPT-3

In-context learning has grown increasingly popular with large language models, such as Chat GPT-3, in recent years. These models teach linguistic tasks such as translation or summarization by being fed many examples of executing them.

How It Works

First, experts give a prompt to the language model, which provides a collection of instances of the

language task it must learn. These examples might be input-output pairings demonstrating how to translate a statement from one language to another.

The model is then given a test input and asked to make a prediction based on what it has learned from the prompt examples. The model may learn to execute the language job more effectively and efficiently by examining its performance in different circumstances.

Take the NeoLore Cyber Security Survey

Has your company done a Cyber Security Maturity Assessment within the last year? Do you have an IT security policy in place? Do you know if you've been hacked or are leaking data?

If your answer was "no" or "I'm not sure" to any of those questions, your company may be at risk for a devastating cyberattack.

Get the NeoLore Networks Cyber Security eBook for Free!

It Features

- Information on the various threats to your business
 - NIST Security Framework
 - CIS Controls
 - Basic Controls
- And More!

<https://neolore.com/cybersecurity>