



**EYE4AI**

# HOW TO START A BUSINESS USING AI?

EMPOWERING YOUNG  
ENTREPRENEURS  
WITH AI

# CONTENTS

## 0: INTRODUCTION: HOW TO START A BUSINESS USING AI

OVERVIEW

LEARNING OBJECTIVES

## 1: KEY APPLICATIONS OF AI IN BUSINESS

## 2: ADVANTAGES AND CHALLENGES IN USING AI IN BUSINESS

2.1: SPECIALISTS AND RESOURCES

2.2: FUTURE MARKET TRENDS

## 3: PRACTICAL ADVICE ON STARTING A BUSINESS

3.1: STEPS TO IMPLEMENTING  
AI IN BUSINESS

3.2: GOOD PRACTICES FOR

IMPLEMENTING AI IN

BUSINESS

## 4: CONCLUSION

## 5: BIBLIOGRAPHY

# INTRODUCTION TO HOW TO START A BUSINESS USING AI

## In Overview of the Module

Artificial intelligence (AI) is no longer just science fiction, but a business-transforming reality. If you're a young entrepreneur, future manager, or business owner, you're probably wondering how AI can help launch your business, improve your operations, and give you a competitive edge. AI encompasses technologies like machine learning, natural language processing, and computer vision. These can automate processes, analyze data, improve customer service, and more.

In 2024, AI became a critical part of business innovation. By 2025, while it may not perform all tasks autonomously, it will significantly transform the way businesses operate and how professionals interact with technology.

This module is divided into three main parts:

- Applications of AI in business – real-world tools and examples.
- Advantages and challenges of using AI in business – key considerations for implementation.
- Practical advice on starting a business using AI – from concept to action.

## Learning Objectives

By the end of this module, you will:

- Understand how artificial intelligence is used in various business contexts.
- Identify where AI can be beneficial in your own business or project.
- Learn essential methods and techniques for integrating AI tools.
- Acquire 21st-century entrepreneurial skills enhanced by AI capabilities.

starting business—it's essential for survival and future growth. Using AI tools help companies to:

- Generate written marketing materials
- Create posts, videos, and ads for their social media audiences
- Track new leads, conversions, and sales
- Handle live customer support if needed, depending of business sector
- Create new contracts and manage signing documents
- Automate and scale marketing campaigns that work for marketing purposes.

1

# KEY APPLICATIONS OF AI IN BUSINESS

Some tools in this article are proposed for new or small business automation. They perform the mundane tasks and provide insights that are critical for informed decision-making, all without requiring a big budget or a large team. Starting a small business is now more affordable than and many entrepreneurs choose to follow already established business models. In principle, for starting some businesses, the initial investment is often lower. Some of AI tools for business are all about making business everyday life easier and helping managers make smarter, data-driven decisions.

The digital environment is now crucial for business success because it enhances efficiency in almost each business area. Online presence allows customers to access products and services 24/7. Automation handles repetitive tasks like customer service, marketing, and invoicing, saving time and money. Some new born companies that leverage digital marketing, SEO, and social media gain visibility and attract easier more customers. Remote work and digital collaboration tools enable flexibility in workforce management. Digital transformation is no longer optional for

AI content creation tools help ease the content creation process by allowing for the rapid generation of high-quality content. They streamline the content creation process, making it easier to captivate and retain the targeted business audience. For example Writesonic is an AI Writing tool for blog posts, product descriptions, social media captions. Pictory is used for video content creation, blog posts or scripts into short videos using AI.

AI in Advertising and E-commerce helps to create ads to optimize and enhance campaign performance. By leveraging AI, businesses can maximize their marketing efforts, reduce costs, and stay competitive in the digital marketplace. AI analyzes customer behavior to deliver personalized ads. Automates ad creation and testing, reducing manual effort, save time and resources.

Here are some AI tools designed specifically to create, optimize, and enhance ad campaigns, helping businesses maximize performance, reduce costs, and automate workflows: **AdCreative.ai**, **Smartly.io**, **Pencil**, **Copy.ai**.

**AdCreative.ai** automatically generates high-converting ad creatives for platforms like Facebook, Instagram, Google, and LinkedIn. AI features are for designs ad visuals and headlines and can be useful for agencies, marketers, and e-commerce brands looking to scale quickly.

**Smartly.io** automates the entire ad process—from creation to testing and optimization—across social platforms. He offers dynamic creative optimization, personalized video and image ad variations, real-time performance insights. It can be helpful for different brands and teams managing multi-platform ad campaigns.

**Pencil** is a AI-powered video ad generator that creates data-driven ads based on previous campaign results, generates new ad concepts automatically, tests and predicts ad success and it is suitable for E-commerce business.

**Copy.ai** is an ad copy generator, that writes high-converting ad copy for Facebook, Google Ads, LinkedIn, and more in seconds. It is appropriate for freelancers, marketers, and startups needing fast, quality copy.

AI solutions can enhance business management by automating tasks, and optimizing operations. For example, AI chatbots handle customer inquiries and internal support, virtual assistants schedule meetings, manage emails, and set reminders, document processing automates invoicing and contract management. Other application is AI recruitment tools who scan CV's, resumes and selecting top candidates for free position. Some tools help in automatization of budgeting and expense tracking for improving company financial planning.

**UiPath** is an AI-Powered Robotic Process Automation, that automates repetitive tasks across departments like finance, HR, and customer service. It can be used for document processing like automates invoicing, form reading, and contract extraction. UiPath uses AI to analyze and improve business processes, reduces

human error, cuts operational costs, and increases speed. It can be useful for enterprises with high volumes of manual tasks.

**HireVue**, uses AI to screen candidates via video interviews and game-based assessments, analyzes speech, word choice, and facial expressions. HireVue can also rank resumes before interviews, but it is designed for big organizations needing to assess many applicants efficiently.

**Manatal** is an applicant tracking system with built-in AI resume analysis, parses and scores resumes, recommends top candidates for each job, enriches profiles with social and public data and is can be beneficial for small or medium businesses and recruiters.

As a part of business management, AI tools for demand forecasting and inventory management leverage advanced analytics to derive meaningful insights and generate accurate forecasts. Machine learning models assess historical sales data, market trends, seasonal fluctuations, weather conditions to predict demand. For instance, AI can identify sales patterns and forecast future sales, enabling businesses to maintain optimal inventory levels. This helps prevent stock shortages or overstocking, improving efficiency and reducing costs, in cases where the business operates with inventory.

**Inventoro** is a user-friendly AI-powered tool designed specifically for small and medium-sized businesses to streamline demand forecasting and inventory management. It leverages advanced analytics to predict future sales based on historical data, seasonal trends, and product performance. With features like automated sales forecasting, smart restocking

recommendations, and dead stock identification, Inventoro helps businesses optimize their inventory levels and reduce excess stock. It also offers cash flow-sensitive purchasing, suggestions, ensuring inventory investments align with the business's financial capacity. Inventoro integrates seamlessly with popular platforms such as Shopify, WooCommerce, QuickBooks Commerce, and DEAR Inventory.

**o9 Solutions** is an enterprise-grade AI-powered platform that supports advanced demand forecasting, supply chain planning, and overall business operations optimization. It uses real-time data inputs—such as market demand signals, promotional calendars, competitor pricing, and external events—to generate highly accurate forecasts and enable agile, data-driven decisions. One of o9's standout features is its scenario planning capability, which allows businesses to simulate different outcomes and develop proactive strategies under varying market conditions. The platform is designed for large-scale operations across industries like retail, consumer goods, manufacturing, and logistics, offering deep analytics and end-to-end visibility into supply and demand. With its AI-driven "Digital Brain" at the core, o9 Solutions empowers organizations to reduce waste, increase responsiveness, and align planning processes with strategic goals.

Embracing sustainability is a smart business strategy that drives efficiency, strengthens brand value, and ensures long-term success in a rapidly evolving global market. AI enables businesses to minimize their environmental impact by optimizing resource utilization and uncovering opportunities for energy efficiency and waste reduction. This, in turn, helps lower a company's carbon footprint and aligns with broader efforts to reduce greenhouse gas emissions. Additionally, advanced data analytics and automated reporting streamline sustainability tracking and ensure compliance with regulatory requirements.

**Ecotrek** is a sustainability-focused AI tool designed for small and medium-sized businesses aiming to monitor and reduce their environmental impact without the complexity of enterprise systems. It helps companies track carbon emissions, energy usage, and waste production across operations and supply chains. With its AI-powered analytics, Ecotrek identifies inefficiencies and offers actionable recommendations to improve energy efficiency, reduce material waste, and make greener procurement decisions. The platform also automates ESG reporting, making it easier for SMBs to stay compliant with environmental standards and demonstrate their sustainability efforts to customers and investors. Its user-friendly interface and flexible pricing make it a practical choice for companies starting or scaling their sustainability programs.

**Persefoni** is an AI-driven carbon accounting and management tool that enables organizations to calculate, analyze, and reduce their carbon footprint with accuracy and transparency. Persefoni uses AI to detect data gaps, recommend efficiency improvements, and simulate scenarios to help businesses achieve carbon neutrality goals. It's especially useful for companies that are beginning their sustainability journey or need audit-grade reporting for investors and regulatory bodies.

AI can detect product defects faster and more accurately than humans by using computer vision, machine learning, and deep learning algorithms. Cameras scan products in real-time, identifying defects such as cracks, scratches etc., depending on type of products. Some AI systems can inspect thousands of products per minute, reducing errors and increasing efficiency. By integrating AI into quality control, businesses can enhance product reliability, reduce returns, and improve customer satisfaction.

**Instrumental** is an AI-powered quality assurance platform that helps small and medium-sized manufacturers detect product defects early in the production process. Using machine learning and computer vision, Instrumental analyzes images from assembly lines in real time to identify flaws such as misalignments, missing components, surface defects, and other anomalies. The system requires minimal setup and can be trained without needing large datasets, making it ideal for companies with limited technical resources. Beyond defect detection, it also helps uncover root causes of manufacturing issues, reducing scrap, rework, and customer returns.

**TOMRA Insight** is a cloud-based AI and sensor-driven quality control platform designed for food processing businesses aiming to enhance product quality and reduce waste. Developed by TOMRA Food, this tool uses advanced machine learning and optical sorting technology to detect defects in fruits, vegetables, nuts, and other food products in real time. It identifies issues such as discoloration, mold, rot, foreign materials, and size inconsistencies—ensuring only quality products make it through the line.

2

# ADVANTAGES AND CHALLENGES OF USING AI IN BUSINESS

While this groundbreaking technology has opened new doors for innovation, it also brings uncertainty and genuine concerns to business.

Many managers and employees fear security threats, job displacement, privacy risks, and loss of control. However, others are embracing it with enthusiasm, eager to explore how this can enhance business processes and high-personalized experience. AI is a transformative technology that offers immense benefits but also introduces significant challenges.

Each business is distinguished by its own characteristics, peculiarities, ideas for development and opportunities. By implementing artificial intelligence, regardless of the field of activity, we can briefly point out the main advantages and disadvantages, and then we will pay special attention to human resources and future market trends.

## Advantages of AI

- Increased efficiency & automation by reducing workload and possibility of human error.
- Enhanced decision-making by analyzing vast datasets, providing insights that improve company strategy and company forecasting.
- Cost reduction by lowers operational costs
- Personalization & customer experience, because AI can tailor recommendations, chatbots, and support services to individual customer needs.
- Innovation & growth, because AI fosters some progressive ideas in healthcare, finance, education, marketing, tourism, hotel industry, social services and many other fields.

## Challenges of AI

- From the perspective of business management and its financial resources, it is no secret that there is job displacement - automation may replace certain roles, requiring workforce reskilling or sometimes the costs of implementing artificial intelligence to replace human labor may be more financially beneficial in the long run.
- Security & privacy risks - AI driven data collection raises business concerns about privacy and cybersecurity threats. This problem is being discussed more and more often and is worrying owners of large corporations and small businesses.
- High implementation costs for some sectors - developing and maintaining AI solutions in some sectors requires investment and expertise.

## 2.1. Specialists and Resources

AI can support your business, but it also comes with challenges—especially when it comes to finding the right specialists and resources. Here’s what you might face and the experts you’ll need depending of your business area.

Lack of technical expertise – If you’re not a coder or data scientist, implementing alone AI in your business can be difficult for you. You need to find someone who can help you if necessary.

High development costs, if you decide to use for your business customized AI solutions. They can be expensive, requiring investment in software, hardware, and skilled employees. Of course, there are ready-made solutions that do not require large investments, explore well all the options.

Data Collection & Privacy Issues – AI needs quality data, and handling it responsibly while ensuring compliance with privacy laws is crucial. Depending on where you will be doing business and where your products or services will be sold, you should thoroughly research the law at the local and international level.

Finding the right AI tools for your business idea – There are many AI solutions, but choosing the best one for your needs takes research, time and testing.

If you don’t have a team, use existing AI tools like ChatGPT for content, MidJourney for design, and Zapier for automation. Outsource AI development or partner with AI startups to minimize costs while testing your idea.

Some key specialists you’ll need if you want to make more investments according your business idea.

**AI/ML Engineer** – Builds and trains machine learning models to automate tasks and improve decision-making.

**Data Scientist** – Analyzes and processes large datasets to provide insights and refine AI models.

**Software Developer** – Helps integrate AI with your website, app, or internal systems.

**Cloud Engineer** – Manages cloud infrastructure if your AI needs cloud computing power.

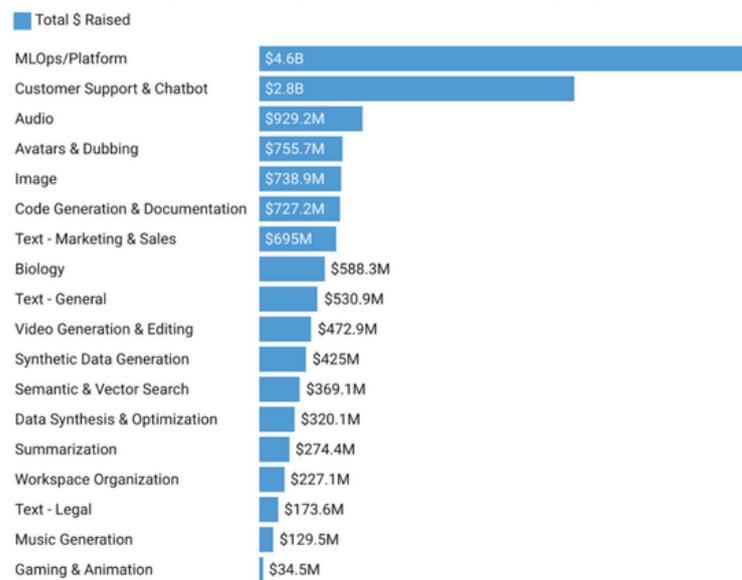
**Cybersecurity Specialist** – Ensures your AI systems are secure and compliant with data privacy laws.

**Digital Marketer** – Uses AI-powered marketing tools to optimize advertising, SEO, and customer engagement.

**Business Strategist** – Helps align AI capabilities with your business goals and market needs.

An interesting article published in 2023 on the website [newcomer.co/](https://newcomer.co/) graphically shows how investors pour money into machine learning operations. Of the \$15 billion in total AI funding (excluding OpenAI), the most funded category is machine learning operations/platform tools.

### Total Funding Raised by Generative AI Category



Originally published by Newcomer in the post "14 Charts That Tell the Story of AI Right Now"  
 Chart: [newcomer.co](https://newcomer.co/) • Source: NFX and Newcomer research • Created with Datawrapper

TOTAL FUNDING RAISED BY GENERATIVE AI CATEGORY

## 2.2. Future Market Trends

AI has already had a serious impact on business, and in the next five years, probably, it continuing to shape market trends in different ways. We will show some key business areas where AI will drive change.

**1. AI-driven customer experience** and deeper personalization of services and products. Businesses will be able to use AI to predict customer needs before they even express them. Here we note AI-driven recommendations, virtual shopping assistants, and real-time customization in everything from e-commerce to finance or healthcare. A simple example - you are shopping for clothes online and are hesitating which dress size to choose, even though you see the size chart. Artificial intelligence probably can advise you in real time what is suitable for you, which type of dress is more suitable for your figure, and much more.

**2. Job evolution.** Repetitive tasks in industries like manufacturing, healthcare, customer service&call centers, e-commerce, retail, electronics, banking, finances, transportation, agriculture, media, education etc., will continue to be automated. However, instead of just replacing jobs, as many employees fear, AI will be able create new roles that require human oversight, creativity, and strategy.

**3. AI in Marketing.** AI tools (like ChatGPT) are already transforming how businesses create content, ads, and customer engagement strategies. In the previous point we mentioned how artificial intelligence content, comprehensive advertisements, comprehensive marketing strategies are being implemented. This trend will deepen in the coming years.

**4. AI in art are creative industry.** The creative industry like movies, music, design will see AI-generated works becoming mainstream, though there will still be debates over originality and copyrights.

**5. AI in supply Chain & Logistics.** AI is making supply chains more efficient and predictive. Companies will use AI to forecast demand, reduce waste, and optimize deliveries with precision, reducing costs and environmental impact. AI in supply chain management helps optimize processes—from planning to manufacturing, logistics, and asset management—and improve decision-making. Businesses are increasingly using AI to optimize the flow of goods—from the sourcing of raw materials to manufacturing and delivery—to help them operate more efficiently. Supply chains are complex, and managing them requires significant time and effort from different teams

within a business, including procurement, QA, and production.

**6. AI-Driven Finance & Decentralization.** AI will make investment strategies more data-driven, improving risk assessment and fraud detection. AI-Driven Decentralized Finance and the Future of Finance addresses the complexities and challenges currently facing the financial industry. AI-Driven Decentralized Finance and the Future of Finance not only offers solutions to current challenges but also paves the way for a more inclusive, sustainable, and innovative future for finance.

**7. AI in Healthcare & Biotech.** It's exciting and important that major public and global health forums—such as the World Health Assembly and the U.N. General Assembly—are actively discussing the essential role of digital tools and technology. As these tools become increasingly integral to the healthcare ecosystem, raising concerns about gender equity and the digital divide at these events can help shape policies, strategies, and processes

**8. AI in Legal & Compliance Fields.** Regulatory AI will help businesses comply with complex laws faster. Over the past few years, legal professionals have become less wary of artificial intelligence (AI). Indeed, they are increasingly embracing AI as a transformative force, becoming more and more optimistic about the positive impact it can have on their practices. According to the professionals surveyed in Thomson Reuters' 2024 Future of Professionals Report, AI is transforming the legal profession by automating routine tasks and boosting lawyer productivity through AI-powered tools that handle document review, legal research, and contract analysis, while showing that AI could save lawyers 4 hours per week while generating \$100,000 in new billable time per lawyer annually.

**9. Ethical AI & Regulation Trends.** Governments will likely introduce stricter regulations on AI, focusing on data privacy, bias, and AI transparency. Businesses that adapt early to ethical AI, probably will have a competitive edge.

# PRACTICAL ADVICE ON STARTING A BUSINESS

Practical advice on starting a business is crucial for young entrepreneurs because it helps them navigate challenges, avoid common pitfalls, and increase their chances of success. Many startups fail due to lack of knowledge about financial management, market demand, or operational challenges. Many young entrepreneurs struggle with budgeting, pricing, marketing, technologies—including AI possibilities and cash flow. Learning financial literacy prevents mismanagement and ensures sustainability of business. The global landscape changes rapidly. Practical advices, good research and good theoretical knowledge helps many entrepreneurs stay agile, pivot when necessary, and embrace innovation. Learning from others entrepreneurs or mentors provides valuable connections and opens doors to future partnerships, funding, and market insights.

## 3.1. Steps to implementing AI in business

Once you have a business idea, write it down along with all aspects related to its implementation. Take the time to refine and solidify your overall vision for the business and its future. Ensure your idea addresses a real need. Continuously revise, refine, and improve it—adding and removing elements as necessary. Engage with acquaintances, experts, and mentors to build a comprehensive model and explore multiple applications of your idea before investing any resources beyond your time.

Creating a business plan for a new venture is essential, as it provides a clear direction for your efforts and helps attract partners and sponsors. The advantage is that it can be continuously adjusted and adapted as your business grows, aligning with the company's evolving needs and changing circumstances

To create an effective AI business model, the company must first identify the customers it aims to serve. These customer groups can be segmented based on varying needs and attributes to ensure that the strategic application aligns with the specific characteristics of the chosen customer segments. What type of customers will your business serve using AI? If your answer is "everyone," that's a red flag. The absence of clear focus on this question is a major issue, as it will create confusion across your entire business and make everything else more complicated.

Startups must have a deep understanding of the market for several key reasons. Knowing the market helps startups pinpoint who their ideal customers are, ensuring they focus their resources on attracting the right audience. Understanding the competition allows startups to identify gaps in the market, offering unique value propositions with help of AI that differentiate them from others. By knowing the market and the need if AI, startups can identify emerging trends in technologies or customers needs or shifts in customer behavior, allowing them to stay ahead of the curve.

Clear business goals, objectives and problem identification is the next step. Start by clearly defining the challenges you want AI to address. Align AI implementation with strategic business goals, such as increasing revenue, improving

efficiency, or offering personalized experiences.

Choose the right AI technology for your business: depending on your goals, select the appropriate AI technologies and tools like AI platforms, AI software that best suit your needs. This can take time, especially if you are not very familiar with new technologies. In most cases, it is best to consult a specialist, explain what you imagine, what you need, so that he/she can guide you to the right choice for you. Decide whether you will develop your own AI solution or purchase a ready-made platform or service from a vendor.

Using AI models require large volumes of data. Ensure that your business has access to relevant data, such as customer behavior, sales figures, or other helpful information. Clear, structured, and high-quality data is essential for future success.

Develop a clear AI strategy that outlines how AI will integrate into your operations, workflows, and goals. Break the entire process into smaller phases with clear milestones and clear goals - when, what, how much? Start with smaller pilot projects before you can fully integrate AI into your business. Each sector has its own characteristics - you can start with a smaller investment, then assess what and where to improve in terms of AI.

Set up metrics to track the performance of the AI system against your business objectives, such as cost savings, efficiency gains, or customer satisfaction. Regularly monitor the performance and impact of AI, making adjustments and improvements as needed to ensure it meets goals.

Scale AI across the Business. Once the AI solution works well in one business field, expand it, if needed, to other parts of the business where AI can add value.

### 3.2. Good practices for implementing AI in business

Since the areas in which artificial intelligence is being used are many, as we described in the previous points, in this section we will indicate good practices that can be a point of reference, without being able to be detailed, due to the variety of businesses and practical applications of artificial intelligence.

#### 3.2.1. AI in customer service

**McDonald's** has been leveraging AI-driven self-order kiosks as part of its strategy to enhance customer experience and streamline operations. These AI-powered kiosks are designed to personalize the ordering process, making it more efficient and tailored to individual customer needs. The kiosks can suggest menu items based on the time of day. For example, during breakfast hours, the system may suggest breakfast items. The system can adjust the menu recommendations depending on the weather. For instance, if it's a hot day, the kiosk might promote cold drinks or ice cream. On a colder day, it might suggest hot beverages like coffee or soups. The AI-driven self-order kiosks have already been implemented in various McDonald's locations around the world, particularly in United States, United Kingdom, Australia.

**Domino's Pizza** has an AI chatbot, Dom, which takes orders via text and voice. The chatbot can communicate with customers via text messages, whether through Domino's website, mobile app, or third-party messaging platforms WhatsApp. Customers can send a text message with their desired order, and chatbot will respond by helping them through the menu, confirming the order, and providing delivery or pickup options.

**Sephora**, a global cosmetic retailer, uses AI-powered virtual assistants to enhance the shopping experience for customers. The Virtual Artist allows customers to upload their photos and try on different makeup products virtually. The Sephora chatbot, available on their website and through messaging apps, provides personalized beauty advice, product recommendations, and helps customers with finding stores or product availability.

The fashion retailer **H&M** uses a chatbot named for handling customer inquiries and

**Starbucks'** Deep Brew AI customizes drink recommendations based on past purchases. Their AI-driven platform allows them to innovate with AI and ML, not only to personalize drive-thru experience but also automate time-consuming tasks.

**Lufthansa Airlines** uses AI-powered chatbots to provide flight assistance to customers, improving the efficiency of customer service operations. The chatbot can help customers with various services, including booking tickets, providing real-time flight updates, checking in for flights, and answering questions about baggage policies or flight details.

### 3.2.2. Food Preparation

**Miso Robotics' "Flippy"** is an AI-powered robot that flips burgers and fries food at places like White Castle and Wendy's. It is a AI-powered robotic kitchen assistant designed to assist with cooking tasks, particularly grilling and frying, in fast-food restaurants and commercial kitchens. Flippy is one of the most advanced robotic systems in the foodservice industry, aiming to automate repetitive cooking tasks while improving consistency, efficiency, and safety

**Pizza Hut** is experimenting with AI-driven pizza-making robots for faster, more consistent food preparation. To streamline its delivery business while also saving the planet, Pizza Hut has developed an automated kitchen that operates on a zero-emissions truck.

At the SEMA car show held this week in Las Vegas, the pizza chain and Toyota debuted a pizza factory on wheels. The flatbed of the Tundra PIE Pro is outfitted with a refrigerator, an automated kitchen with a computer-guided robotic arm, a high-speed ventless oven and a box assembly station.

### 3.2.3. AI Voice Assistants and Inventory & Waste Management

**Panera Bread** and **Taco Bell** are testing AI voice assistants for drive-thru orders, reducing human error and speeding up service. Taco Bell's parent company Yum! Brands recently announced that it plans to expand its use of artificial intelligence voice technology to hundreds more drive-thru locations in the U.S. The fast-food chain has already been experimenting with AI at more than 100 locations in 13 states, and Yum! Brands said it's found that the technology frees up staff for other tasks and also improves order accuracy. The company also seeks to reduce wait times.

Panera Bread begins testing AI technology in drive-thru lanes with an aim to improve and enhance the guest experience. With support from OpenCity, select Panera bakery-cafes in the greater Rochester, NY area have implemented OpenCity's proprietary voice AI ordering technology, called "Tori", for drive-thru orders, with the goal of maximizing efficiency and increasing speed of orders.

**Winnow Vision** (used in hotels & restaurants) helps chefs track food waste using AI-powered cameras, reducing waste and saving money.

It uses cameras and machine learning algorithms to automatically identify and measure food waste as it's discarded. By analyzing the types and quantities of waste, it provides insights to help businesses optimize their food production, reduce waste, and save money. This system promotes sustainability while improving efficiency in kitchens.

**Zume Pizza** used AI to predict demand and reduce food waste by optimizing ingredient ordering. Zume was designed to deliver pizzas to customers in vans, with the food prepared by robots and cooked in GPS-equipped automated ovens. The company secured a patent on cooking during delivery, which included algorithms to predict customer choices. It also planned to work

with other firms to provide further robot-prepared food, such as salads and desserts.

#### 3.2.4. AI in Food Delivery & Robotics

One of the major features of the new **DoorDash Commerce Platform** is its AI phone ordering capabilities. First introduced in 2023, this technology is now being further refined, combining advanced AI with highly skilled agents to provide even better support for restaurant operations.

The goal is to help restaurants manage phone orders efficiently while ensuring customers receive the high-quality service they expect.

**Starship Technologies** have small AI-powered robots delivering food.

Starship robots are 99% autonomous. They learn with every journey – and they've safely completed millions more deliveries than any competitor. These robots deliver hot food, groceries and industrial supplies, using a combination of radars, cameras, sensors and machine learning to identify objects and navigate the world around them.

## CONCLUSION

Many AI tools are an innovative way to improve customer service, personalize the experience, and streamline its operations. Future developments may include even more personalized recommendations based on a customer's order history, integration with new platforms, and even advanced customer service features, such as handling complaints or questions via AI-powered responses.

Some AI can be used in the foodservice industry to create a more efficient, personalized, and user-friendly experience. By enabling customers to place orders through text or voice, companies meet modern consumer expectations for convenience and customization. Other solutions empower customers by giving them access to real-time information about their finances and helps them with routine inquiries. It also reduces the need for customers to call customer service for common issues, making the process more efficient. The AI-driven bots can also transfer customers to human agents when needed, ensuring a seamless experience. Automating customer service tasks reduces the need for large customer support teams, saving companies significant amounts in operational costs. AI-driven systems allow businesses to provide round-the-clock service, which is especially useful for customers in different time zones or those who need assistance outside of business hours. By analyzing customer data, these AI systems can offer tailored recommendations and responses, enhancing the customer experience and fostering loyalty.

## BIBLIOGRAPHY

1. [copyvibes.eu/ai-prez-2024/](https://copyvibes.eu/ai-prez-2024/)
2. [ai.softuni.bg/blog/zhelyo-penchev-on-ai-application](https://ai.softuni.bg/blog/zhelyo-penchev-on-ai-application)
3. [nit.bg/statii/2024-godina/gotovi-za-izkustven-intelekt-kak-da-vnedrim-ai-v-biznesa-si](https://nit.bg/statii/2024-godina/gotovi-za-izkustven-intelekt-kak-da-vnedrim-ai-v-biznesa-si)
4. [money.bg/inovations/zaplaha-panatseya-ili-vazmozhnost-kak-ai-shte-promeni-biznesa-prez-2025-a.html](https://money.bg/inovations/zaplaha-panatseya-ili-vazmozhnost-kak-ai-shte-promeni-biznesa-prez-2025-a.html)
5. [ai.softuni.bg/blog/how-ai-helps-at-work](https://ai.softuni.bg/blog/how-ai-helps-at-work)
6. [orbes.com/councils/forbesbusinesscouncil/2023/03/01/understanding-the-benefits-and-risks-of-using-ai-in-business/](https://orbes.com/councils/forbesbusinesscouncil/2023/03/01/understanding-the-benefits-and-risks-of-using-ai-in-business/)
7. [forbes.com/councils/forbesbusinesscouncil/2023/03/01/understanding-the-benefits-and-risks-of-using-ai-in-business/](https://forbes.com/councils/forbesbusinesscouncil/2023/03/01/understanding-the-benefits-and-risks-of-using-ai-in-business/)
8. [sap.com/resources/ai-in-supply-chain-management](https://sap.com/resources/ai-in-supply-chain-management)
9. [igj-global.com/book/driven-decentralized-finance-future-finance/343536](https://igj-global.com/book/driven-decentralized-finance-future-finance/343536)
10. [rabinmartin.com/insights/how-do-we-shape-a-more-inclusive-future-in-digital-health/?gad\\_source=1&gclid=Cj0KCQjw4v6-BhDuARIsALprm33r9sKsdvk22GJrEAhwV3y8um4bfWuL2Y8KnpjynqwJ6WimrUCp1oaAtqaEALw\\_wcB](https://rabinmartin.com/insights/how-do-we-shape-a-more-inclusive-future-in-digital-health/?gad_source=1&gclid=Cj0KCQjw4v6-BhDuARIsALprm33r9sKsdvk22GJrEAhwV3y8um4bfWuL2Y8KnpjynqwJ6WimrUCp1oaAtqaEALw_wcB)
11. [legal.thomsonreuters.com/blog/how-ai-is-transforming-the-legal-profession/](https://legal.thomsonreuters.com/blog/how-ai-is-transforming-the-legal-profession/)
12. [wavetec.com/blog/mcdonalds-leveraging-self-service-technologies/](https://wavetec.com/blog/mcdonalds-leveraging-self-service-technologies/)
13. [innovorder.com/en/blog/self-ordering-kiosk-mcdonalds](https://innovorder.com/en/blog/self-ordering-kiosk-mcdonalds)
14. [businessinsider.com/mcdonalds-menus-will-recommend-food-based-on-the-weather-2015-11](https://businessinsider.com/mcdonalds-menus-will-recommend-food-based-on-the-weather-2015-11)
15. [messagemind.ai/case-study/dominos/](https://messagemind.ai/case-study/dominos/)
16. [botmaker.com/en/clients/client-dominos/](https://botmaker.com/en/clients/client-dominos/)
17. [chatbotguide.org/sephora-bot](https://chatbotguide.org/sephora-bot)
18. [chatbotguide.org/h-m-bot](https://chatbotguide.org/h-m-bot)
19. [hyperight.com/deep-brew-transforming-starbucks-into-a-data-driven-company/](https://hyperight.com/deep-brew-transforming-starbucks-into-a-data-driven-company/)
20. [cognigy.com/en/case-study/lufthansa](https://cognigy.com/en/case-study/lufthansa)
21. [misorobotics.com/](https://misorobotics.com/)
22. [nrrn.com/restaurant-technology/pizza-hut-develops-robotic-kitchen-on-wheels](https://nrrn.com/restaurant-technology/pizza-hut-develops-robotic-kitchen-on-wheels)
23. [eu.democratandchronicle.com/story/news/2024/08/09/taco-bell-ai-drive-thru-voice-technology-artificial-intelligence-expand-fast-food/74685450007/](https://eu.democratandchronicle.com/story/news/2024/08/09/taco-bell-ai-drive-thru-voice-technology-artificial-intelligence-expand-fast-food/74685450007/)
24. [winnowsolutions.com/product/food-waste-management-software](https://winnowsolutions.com/product/food-waste-management-software)
25. [physicsworld.com/a/robot-cooked-pizza-delivered-to-your-door-heres-what-zumes-failure-tells-us/](https://physicsworld.com/a/robot-cooked-pizza-delivered-to-your-door-heres-what-zumes-failure-tells-us/)
26. [writesonic.com](https://writesonic.com)
27. [newcomer.co](https://newcomer.co)
28. [pictory.ai](https://pictory.ai)
29. [adcreative.ai](https://adcreative.ai)
30. [smartly.io](https://smartly.io)
31. [copy.ai](https://copy.ai)
32. [trypencil.com](https://trypencil.com)
33. [uiopath.com](https://uiopath.com)
34. [hirevue.com](https://hirevue.com)
35. [manatal.com](https://manatal.com)
36. [inventoro.com](https://inventoro.com)
37. [o9solutions.com](https://o9solutions.com)
38. [ekotreck.tech](https://ekotreck.tech)
39. [tomra.com](https://tomra.com)
40. [instrumental.com](https://instrumental.com)
41. [persefoni.com](https://persefoni.com)



**ORIO**  
**EYE4AI**