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A Generative AI-powered Travel Planning Platform Reduce Booking Time by 39% **SEE PAGE 07**

Year End Edition

Top AI News of 2024

Recently Delivered AI/ML Projects

Newly Launched Products

Upcoming AI Trends in 2025

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Top AI News of 2024

GOOGLE'S GEMINI ANALYZING MEDICAL SCANS

Google's Gemini model achieved unprecedented accuracy in analyzing medical scan images, aiding in early disease detection and diagnosis.

NEWS SOURCE: **GOOGLE RESEARCH**

OPENAI'S O3 MODEL LAUNCH

OpenAI introduced its most advanced model, focusing on enhanced reasoning capabilities for complex tasks like programming and mathematics.

NEWS SOURCE: **WIRED**

APPLE INTELLIGENCE LAUNCH

Apple entered the generative AI market with "Apple Intelligence," embedding AI capabilities across its ecosystem for a refined user experience.

NEWS SOURCE: **THE VERGE**

AI SEOUL SUMMIT

The AI Seoul Summit, co-hosted by South Korea and the UK, resulted in the Seoul Declaration for global AI governance and cooperation.

NEWS SOURCE: **WIKIPEDIA**

AI IN MEDICAL TECHNOLOGY AMID ISRAEL-HAMAS CONFLICT

The conflict led to groundbreaking advancements in medical technology, such as 3D-printed prosthetics, AI-driven surgical robots, and mental health solutions.

NEWS SOURCE: **NEW YORK POST**

EDITOR-IN-CHIEF

Editor
Picked News

Google's Next-Gen AI for Multimodal Medical Applications

Google has unveiled Med-Gemini, a groundbreaking family of AI models fine-tuned for the medical domain. Building on the capabilities of the Gemini model family, Med-Gemini incorporates advanced reasoning, multimodal understanding, and long-context processing to address diverse healthcare applications. These include generating radiology reports, summarizing health information, and analyzing complex electronic health records (EHRs).

Med-Gemini marks a significant leap in AI's contribution to the medical field, offering promising insights for clinician, researcher, and patient workflows.
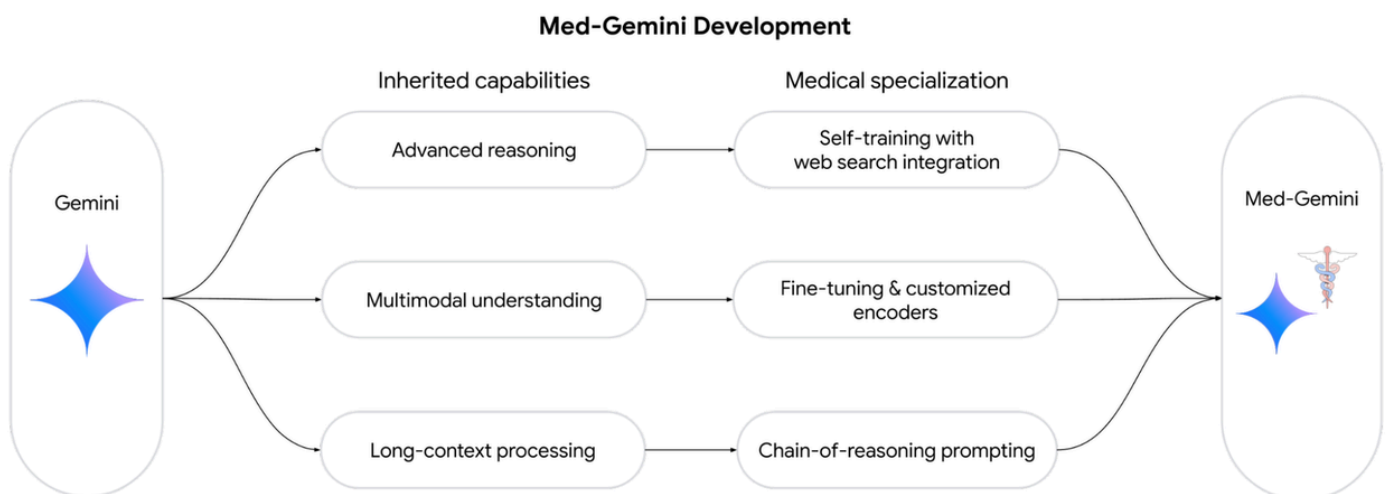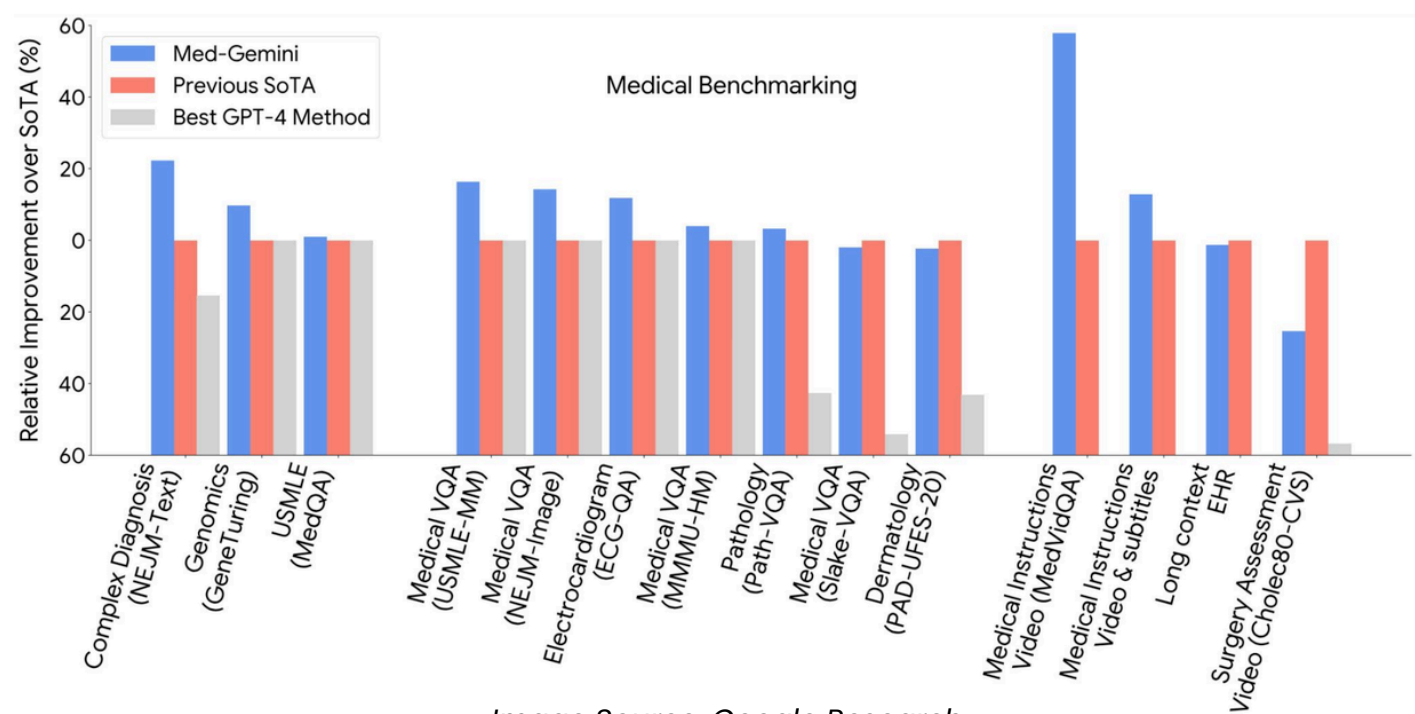

Image Source: Google Research

Image Source: Google Research

Key Highlights

Enhanced Performance:

Med-Gemini achieves state-of-the-art accuracy of 91.1% on the MedQA benchmark, surpassing previous results by 4.6%.

It demonstrates unmatched performance across 14 tasks spanning text, multimodal, and long-context applications.

Multimodal Advancements:

Capable of interpreting 2D and 3D medical images, including chest X-rays and CT scans, with improved diagnostic accuracy and report generation.

Integrates genomic data analysis for disease risk prediction, outperforming prior models in predicting outcomes like stroke and type 2 diabetes.

While Med-Gemini is not yet available for commercial use, Google is actively exploring collaborations with healthcare and life sciences organizations to refine its capabilities. Emphasizing safety, bias mitigation, and real-world evaluations, Google aims to set a new benchmark for AI in medicine.

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Latest Developments
Top 3 AI/ML Projects Delivered in 2024

OPENAI'S GPT-4 BASED TRAVEL PLANNING PLATFORM

ThirdEye successfully developed and launched a OpenAI-powered travel planning platform as MVP for busy professionals seeking well-curated itineraries without extensive planning. Leveraging generative AI technologies, the platform streamlines the travel planning process while adhering to budget constraints and personal preferences.

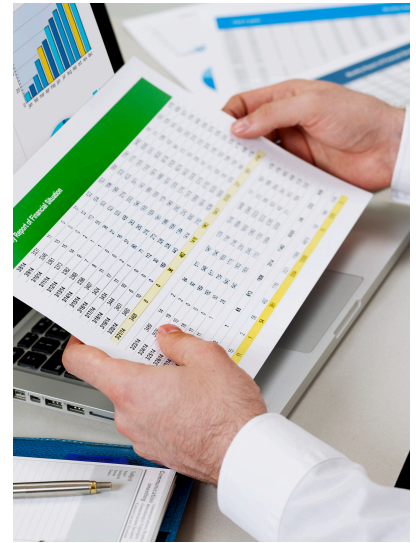By leveraging the power of OpenAI's GPT model, this travel planning platform reduce booking time by 39%.

READ MORE ABOUT THIS PROJECT

MEDICAL EQUIPMENTS' REMAINING BATTERY LIFE PREDICTION SYSTEM

ThirdEye Built a medical equipment's battery remaining life prediction system leveraging Machine Learning models based on early life cycle test data. The model predicted the remaining life in terms of the number of cycles.

READ MORE ABOUT THIS PROJECT

OPENAI-BASED FINANCIAL DOCUMENT ANALYTICS PLATFORM

ThirdEye has developed a document analytics platform for an audit firm to extract pertinent entities from a variety of file formats, such as .pdf, .xls, and .doc, originating from multiple sources. The extracted data is visible through user dashboard and chat window, powered by OpenAI's GPT-4 model.

The audit firm has saved $133,340 annually in labor costs while acquiring 2 additional projects annually due to increased efficiency and ability to take on more work.

READ MORE ABOUT THIS PROJECT

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AI-powered Travel Planning Platform – MVP Development

The platform leverages OpenAI's custom GPT models to enhance user experience:

Personalized Itinerary Generation: Custom AI model analyzes user preferences and historical data to create personalized itineraries aligned with their interests, budget, and time constraints.

Dynamic Content Creation: Custom GPT model generates unique and engaging descriptions for destinations and activities, enriching content and improving SEO performance.

Automated Customer Support: ChatGPT-driven chatbots and support systems provide instant assistance to users, offering natural language understanding for effective responses.

Value Created

- **Increased Efficiency:** Users saved 43% time compared to traditional travel planning methods.
- **Improved User Satisfaction:** Personalized itineraries and a seamless user experience lead to 17% more customer satisfaction.
- **Enhanced Budget Management:** AI-powered suggestions helped users stay within their budget constraints.
- **Streamlined Booking Processes:** Automated features reduce booking time by 39%.

Get More Details

Medical Equipments' Battery Remaining Life Predictions

ThirdEye developed a Machine Learning Model based on early life cycle test data. The model predicted the remaining life in terms of the number of cycles. The model was trained on the latest data, arriving at regular intervals to increase the prediction accuracy to 90%. It helped the customer to take necessary actions proactively.

The process steps were as follows:
- Performed Feature processing, including feature selection and feature engineering
- Training and testing regression models.
- Multiple model types were tried.
- A reinforcement learning-based system was used to guide the testing process
- Took an Active Learning approach to judiciously decide on the batteries further.

Technology Used

- Data exploration Python packages
- Tensorflow
- SciKit Learn for non deep learning solutions
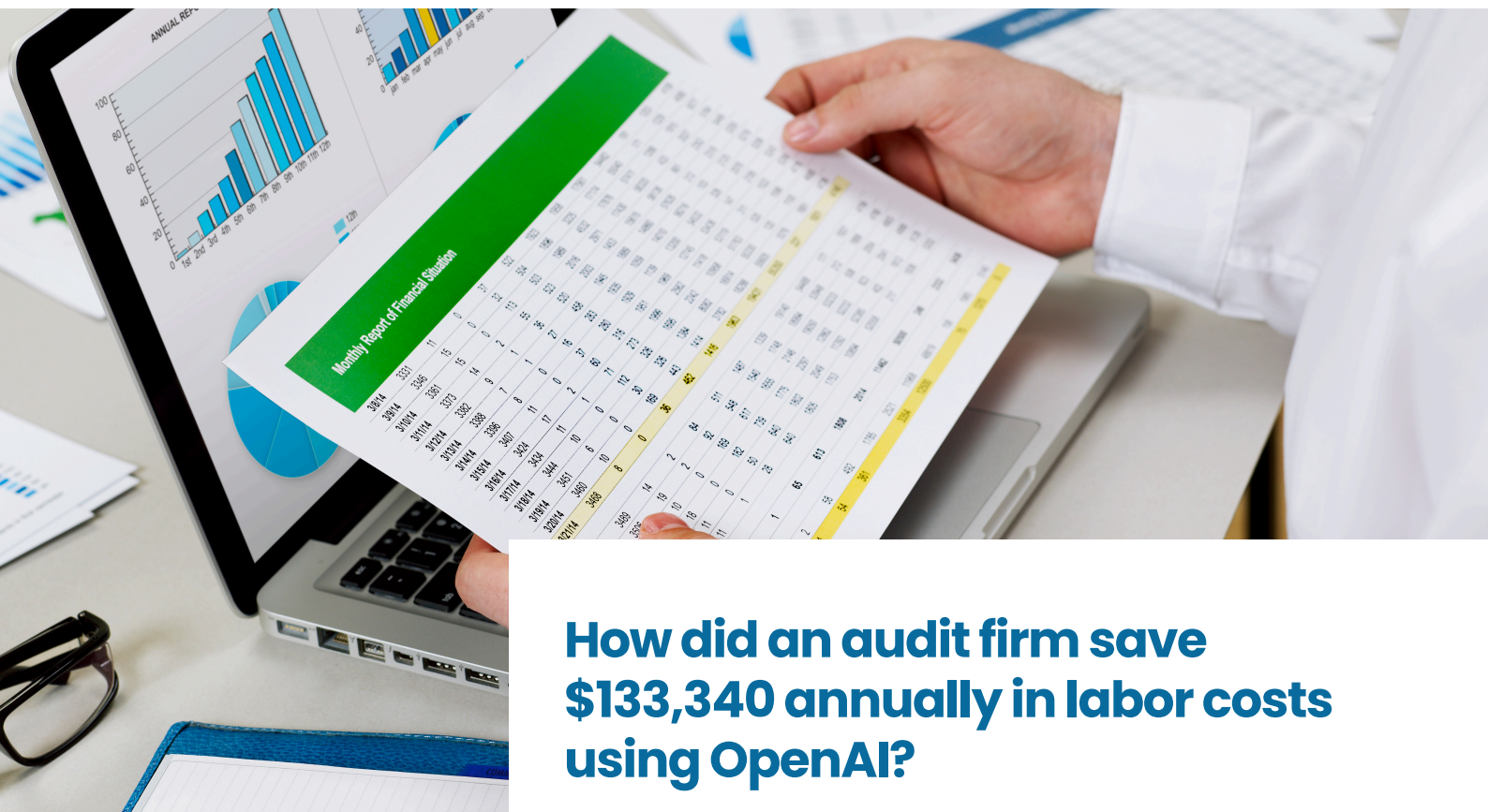- Python programming language
- MySQL

Value Created

ThirdEye has successfully tested and deployed the model with the given early life cycle test data. The customer has also tested the system and validated it as per the stated business requirements. The customer has accepted that the prediction model is delivering the desired results. The customer has requested ThirdEye to work further on the model to make it ready to be deployed in the operation with a higher accuracy percentage.

Get More Details

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OpenAI-based Financial Document Analytics Platform

How did an audit firm save $133,340 annually in labor costs using OpenAI?

ThirdEye proposes to commission a managed solution named "Optira" that will have all required functionalities and will scale over time as per business traction. Along with the primary features like data ingestion from multiple sources, automating data processing for various file types, it has been equipped with PowerBI dashboard to visualize and analyze the data and ChatGPT interface to ask questions and get extracted answers in normal English.
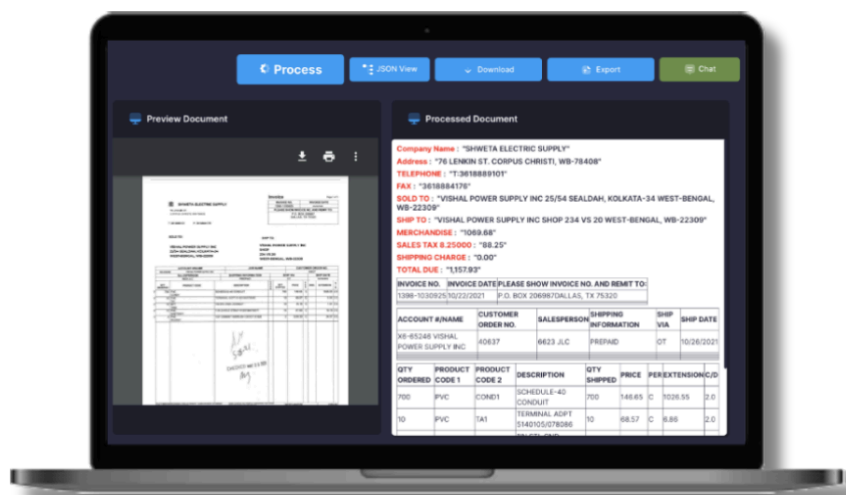
Technologies Incorporated

- Azure Blob Storage
- Azure Event Hub
- Azure Form Recognizer
- Azure Data Factory
- Azure Cosmos DB
- Azure Machine Learning
- PowerBI
- OpenAI's GPT-4 Model
- Azure Computer Vision
- Azure Cognitive Services
- Custom Classification Models
- Custom Web UI Application

Get More Details

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Newly Launched Products

__Explore Optira__

INTRODUCING OPTIRA

Optira is a generative AI-based document conversion platform.

Optira works as a centralized platform for enterprises to streamline data extraction, processing, and analytics. Powered by OpenAI's GPT model, it enables users to perform data queries through a ChatGPT-like conversational interface.

LAUNCHED LEARNINGPATH - A PLATFORM TO TRANSFORM YOUNG GRADUATES INTO INDUSTRY-READY AI PROFESSIONALS

LearningPath is a comprehensive suite of courses and hands-on projects designed to transform young students into industry-ready AI professionals. This game-changing initiative bridges the gap between academic curricula and industry requirements, making it suitable for both computer science and non-computer science students.

All lessons are taught by industry experts and seasoned professionals from ThirdEye Data, providing students with real-world exposure to applying AI, ML, Generative AI, and Computer Vision technologies to practical use cases.

__Explore LearningPath__

Recognition & Awards

Named as one of the America's Most Reliable Companies 2025

ThirdEye Data has been named one of America's Most Reliable Companies 2025 by Newsweek in collaboration with Statista!
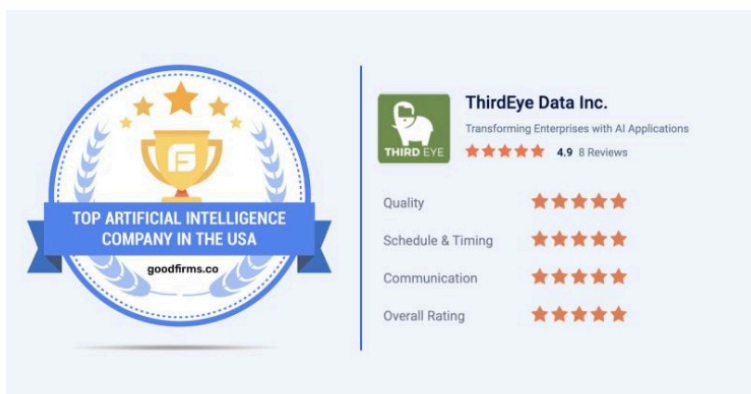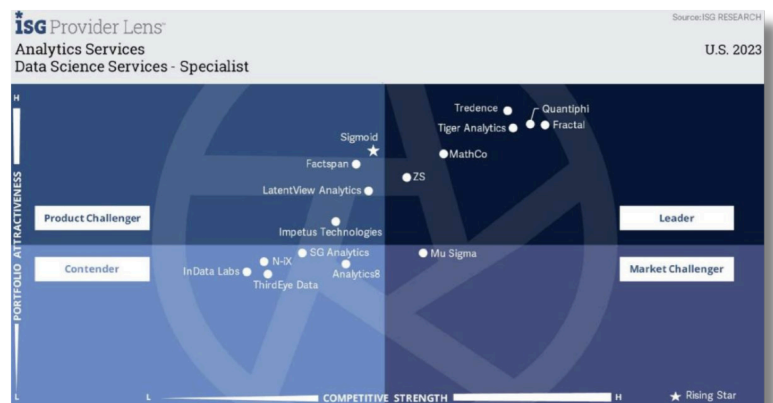
This recognition is based on insights from 1,700+ decision-makers and 40,000 evaluations.

ISG Provider Lens

ThirdEye Data has been recognized in the ISG Provider Lens™ Analytics Services 2024 – Global Region study!

We've been honored in two prestigious categories:
🏆 Data Science Services Specialist
🏆 Data Engineering Services Specialist

Award by GoodFirms

ThirdEye Data has been recognized as one of the Top AI Companies in the USA by GoodFirms!

Our success was driven by:
✅ On-time delivery
✅ High-quality work
✅ Seamless communication
✅ Tangible ROI for our customers

Conferences & Podcasts

ThirdEye Data has actively participated in and shared valuable insights at various prestigious events and forums, showcasing its expertise in AI and data-driven solutions.

At the Generation Digital Conference '24, an annual event organized by Generation Digital Magazine,

ThirdEye Data joined industry leaders to explore advancements in workplace AI and data mastery, fostering meaningful discussions on the future of digital transformation.

On the Positive Habits Podcast with Ian Tomlin, DJ Das, Founder and CEO of ThirdEye Data, delved into the evolving world of data management and the significance of a data-centric culture. He provided actionable insights on unlocking true business value by aligning technology with strategic goals and leveraging high-quality, consumable data effectively.

Coming up, ThirdEye Data joined an Exclusive Microsoft Copilot Studio Workshop at the Microsoft Canadian Headquarters in CIBC Square, Toronto. This in-person, multi-industry event introduced attendees to the transformative capabilities of Microsoft Copilot Studio, empowering them to address their industry's unique challenges using cutting-edge Conversational AI.

...a data culture should be inculcated into the company right at the very start, right at the very beginning.

Dj Das
Founder & CEO of ThirdEye Data

UWI
UNIVERSAL WORKFORCE INSTITUTE

Listen to the podcast!

PODCAST

Ian and Dj discuss the evolution of data management and the importance of building a data-centric culture within organisations.

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Upcoming AI Trends in 2025

Artificial Intelligence (AI) continues to evolve at a rapid pace, driving innovation across industries and transforming how businesses operate. As we approach 2025, several key trends are poised to redefine the AI landscape. From generative AI advancements to sustainable AI practices, let's explore the upcoming trends expected to make a significant impact.

Generative AI Becomes a Business Standard

Generative AI, which gained traction with applications like ChatGPT and DALL-E, is set to mature further. By 2025, organizations will widely adopt these models for creative tasks, from content generation to product design.

- Real Example: Coca-Cola used OpenAI's DALL-E and GPT-4 in its "Create Real Magic" campaign, engaging consumers to design custom content, demonstrating how generative AI can revolutionize marketing strategies.
- Statistic: Gartner predicts that by 2025, generative AI will account for 10% of all data produced globally, compared to less than 1% in 2021.

AI Democratization Through Low-Code/No-Code Platforms

AI democratization will empower non-technical users to harness AI capabilities. Low-code and no-code platforms will simplify the deployment of AI solutions, making innovation accessible to small and medium-sized enterprises (SMEs).

- Real Example: Zoho's AI platform enables SMEs to develop custom AI solutions for customer management without extensive coding knowledge.
- Statistic: By 2025, 70% of new applications developed by enterprises will use low-code/no-code technologies, according to Gartner.

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Thanks for reading!

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