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Top Generative AI Applications Across Industries Gen AI Applications 2025

20 Tips For Professionals Breaking Into AI Or Generative AI



Working with the Leipzig Ballet, Yeff used GenAI to generate innovative dance movements against an AI-generated background. Cognigy is a generative AI platform designed to help businesses automate customer service voice and chat channels. Rather than simply reading answers from a FAQ or similar document, it delivers personalized, context-sensitive answers in multiple languages and focuses on creating human-like interactions.

Generative AI and the future of academia – The Campus

Generative AI and the future of academia.

Posted: Fri, 24 Jan 2025 18:03:48 GMT [[source](#)]

This new platform guarantees that uploaded data can be decrypted only by the expected server side workflow (anonymizing aggregation) in an expected virtual machine, running in a TEE backed by a CPU's cryptographic attestation (e.g., AMD or Intel). Parfait's confidential federated computations repository implements this code, leveraging state-of-the-art differential privacy aggregation primitives in the TensorFlow Federated repository. One company that profits from its continuous learning GenAI bot is U.K.-based energy supplier Octopus Energy. Its CEO, Greg Jackson, reported that the bot accomplishes the work of 250 people and achieves higher satisfaction rates than human agents. Without a doubt, one of the standout use cases for generative AI in business is in customer service and support. This is in contrast to a number of launches in the last couple of years that have seen LinkedIn building by leaning hard on technology from OpenAI, the AI startup backed to the hilt by Microsoft, which also owns LinkedIn.

000 AI tracks uploaded daily to Deezer, platform reveals, as it files two patents for new AI detection tool

Organizations fund these solutions after they meet innovation criteria related to end-user desirability, technical feasibility, and business viability. According to a new research briefing by researchers Nick van der Meulen and Barbara H. Wixom at the MIT Center for Information Systems Research, organizations are distinguishing between two types of generative AI implementations. The first, broadly

applicable generative AI tools, are used to boost personal productivity. The second, tailored generative AI solutions, are designed for use by specific groups of organizational stakeholders. As organizations continue to experiment with and realize business value from generative artificial intelligence, leaders are implementing the technology in two distinct ways. Companies are already using GenAI to pursue small-t transformation nearer to the bottom of the risk slope.



While the guidance documents should provide some clarity for medical device developers, questions still loom about how regulators will approach generative AI. EBay says it is developing more AI-powered tools and features simplify how sellers list and manage their inventory. To use Operator, consumers describe the task they would like performed, such as locating a desired product to purchase, and Operator automatically handles the rest. Operator is trained to proactively ask the user to take over for tasks that require login, payment details, or proving they are human. EBay is testing a virtual assistant for consumers that is equipped with a leading-edge artificial intelligence capability.

Frequently Asked Questions (FAQs)

Large banks and insurers may have thousands of people doing

these tasks, and much of the work is about integrating and interpreting large amounts of unstructured information. Use cases and productivity gains expand when an organization can integrate an LLM with company information and desktop tools. Three categories of transformation represent different areas of the risk slope, starting with low-risk individual uses, then moving to role- and team-specific tasks, and finally to products and customer-facing experiences. Get monthly insights on how artificial intelligence impacts your organization and what it means for your company and customers. The company said that the popularity of generative models such as Suno and Udio have made it easier to automatically create songs, with a view to generating revenue by getting people to stream them. (Web Desk) – Huge numbers of tracks are already being generated by artificial intelligence, according to streaming service Deezer.



Accessible through both Discord and its dedicated web platform, this AI tool lets you produce customized images using aspect ratios and styles. You can also blend multiple images together and add quirky, offbeat qualities to your output to expand creative possibilities. GitHub Copilot is a specialized GenAI tool for context-aware coding assistance throughout the software development lifecycle. It aids developers through code completion, chat assistance, and code explanation and works well with popular integrated development environments (IDEs) like Visual Studio Code and JetBrains

IDEs, offering developers real-time suggestions as they code. The technology has greatly democratized programming for business users and sped up the process for experts. But GenAI, while evolving rapidly, isn't perfect and can make up results – known as AI hallucinations – that could end up in production if a skilled human isn't part of the process, Nwankpa explained.

Risks of Generative AI

Manufacturing teams have to meet production goals across throughput, rate, quality, yield and safety. To achieve these goals, operators must ensure uninterrupted operation and prevent unexpected downtime, keeping their machines in perfect condition. However, navigating siloed data – such as maintenance records, equipment manuals and operating procedure documentation – is complicated, time-consuming and expensive. Leverage AI chatbots and real-time messaging with in-depth analytics to understand how customers are using your channels better.

How generative AI is paving the way for transformative federal operations – FedScoop

How generative AI is paving the way for transformative federal operations.

Posted: Thu, 23 Jan 2025 20:30:44 GMT [[source](#)]

I wear a lot of hats; I run a small business with my wife, who also has her own business, where I'm the tech guy and designer. And I'm constantly working on projects, ranging from 3D printing the ultimate charging tower, to trying to make an

AI-assisted Etsy store, to composing and publishing music and using an AI for help with some of the marketing activities. A 12-month program focused on applying the tools of modern data science, optimization and machine learning to solve real-world business problems.

Cohere Generate

According to Bloomberg reports, OpenAI has been rumored to be working on a project codenamed “Operator,” which could potentially enable autonomous AI agents to control computers independently. These features are already being sold, such as a tool made by Rad AI to generate radiology report impressions from the findings and clinical indication. Companies including GE Healthcare, Medtronic and Dexcom touted new AI features, and others like Stryker and Quest Diagnostics added AI assets through M&A. Meanwhile, conversations about regulations and generative AI, models that are trained to create new data including images and text, dominated medtech conferences.

- Kottler is also watching vision language models that can analyze an image and then craft a draft report.
- It can make images in diverse artistic styles and adjust its generated images according to additional prompts.
- It seems developers view AI tools as going beyond supporting productivity and creativity.
- Some leaders are thinking beyond these highly publicized GenAI risks to also consider the costs and risks of preparing the organization for large-scale implementations.
- Keep in mind that while companies can develop in all three simultaneously, the maturity levels likely will vary.

Assess where your company is now on the risk slope relative to

the companies we've described. What are you already doing, and what would be the next level of complexity and reward? Look at the opportunities in the areas of individual productivity, role-specific enhancements, and innovations in product or customer engagement. Keep in mind that while companies can develop in all three simultaneously, the maturity levels likely will vary. AI-powered platforms could serve as proactive assistants, even monitoring an educator's credentials and providing updates.

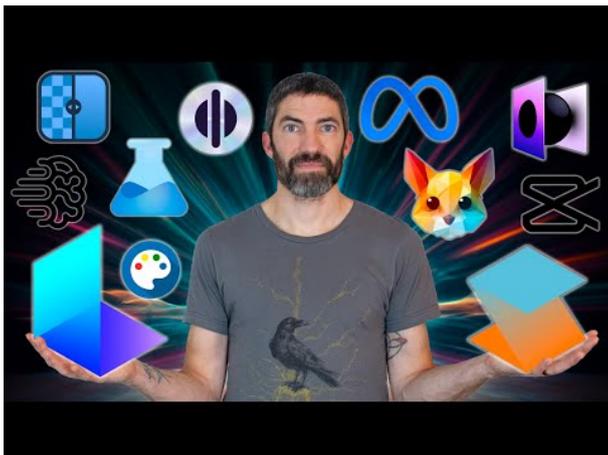
Brands are now leveraging AI to produce personalized campaigns tailored to the preferences of specific audience segments, significantly enhancing campaign effectiveness. These building blocks and references led to the development of a Google Cloud architecture for cross-silo and cross-device federated learning and Privacy Sandbox's Federated Compute server for on-device-personalization. For example, Google has developed a new GenAI technique that lets shoppers virtually try on clothes to see how garments suit their skin tone and size. Other Google Shopping tools use GenAI to intelligently display the most relevant products, summarize key reviews, track the best prices, recommend complementary items and seamlessly complete the order. Firms such as fintech marketplace InvestHub use generative AI to personalize at scale. Recently acquired by Zendesk, Streamline automates the resolution of repetitive support requests powered by ChatGPT.



Hard truths about AI-assisted codingGoogle's Addy Osmani breaks it down to 70/30—that is, AI coding tools can often get you 70% of the way, but you'll need experienced help for the remaining 30%. Tackling the challenge of AI in computer science educationThe next generation of software developers is already using AI in the classroom and beyond, but educators say they still need to learn the basics. Welcome to the new monthly genAI roundup for developers and other tech professionals.

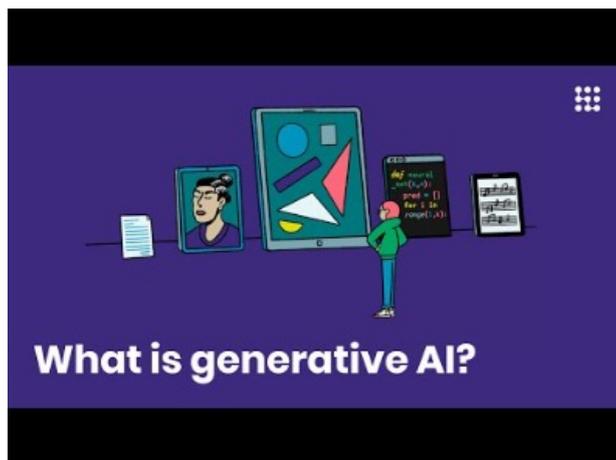
Democratized Data-Driven Decisions

Starting January 2025, the Alibaba Cloud Container Compute Service (ACS) will provide cost-effective container-based workload deployment. PC development is also looking healthy, with 80% of developers surveyed currently making games for our lovely thinking tellies, up from 66% last year. It's rare to see a week pass where we don't hear about job losses in some form, but even so, that one in ten figure hits especially hard.



While Parfait remains an evergreen space for research advancements to be driven into products (at Google and beyond), Google product teams are using it in real-world deployments. For example, Gboard has used technologies in

Parfait to improve user experiences, launching the first neural-net models trained using federated learning with formal differential privacy and expanding its use. They also continue to use federated analytics to advance Gboard's out-of-vocab words for less common languages. From copywriting and content generation to idea creation and more, GenAI has influenced media in both subtle and more audacious ways.



Research firm Gartner predicted that by 2026, intelligent generative AI will reduce labor costs by \$80 billion by taking over almost all customer service activities. Traditional AI-powered chatbots, no matter how sophisticated, struggle to understand and answer complex inquiries, leading to misinterpretations and customer frustration. In contrast, a GenAI-powered chatbot – drawing from the company's entire wealth of knowledge – dialogues with customers in a humanlike, natural way.

“A lot of the work we're doing now stems from our AI Task Force established in early 2023,” says Kraft. This task force laid the groundwork for initiatives like DHSChat, an internal AI tool supporting nearly DHS 19,000 employees, and three generative AI pilot programs. Alibaba Cloud has also unveiled tools like Workflow for managing complex tasks, Agent for multi-agent collaboration, and RAG (Retrieval-Augmented Generation) to improve model reliability. Additional tools for

model evaluation and application monitoring will be available later this month.