

Guide to Harnessing AI Power in Business



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Organizations need to leverage the power of AI or risk losing standing in the industry.

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TECHNICAL INPUTS

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The New Paradigm

OpenAI has created a Topsy-Turvy situation in the professional workspace. Since it came into the picture, some processes have been getting faster while various operations have become murky.

But one thing is clear — For companies to compete and succeed in the new landscape, using OpenAI's capabilities is a must. Reports suggest that the global artificial intelligence (AI) industry is expected to reach a whopping US\$ 1,871.2 billion by 2032, starting from an estimated US\$ 69.25 billion in 2022. That's a projected growth rate of 47.6% between 2022 and 2030!

Any application that a company builds — for internal use or external engagement — AI-powered tools and processes need to be incorporated. This blog gives an explanation of how to create such an app.

AI in Software Development

We have entered an age where artificial intelligence is making rapid, revolutionary changes in software development processes, reducing overall cost and turnaround time. From automating project management to generating designs, writing codes, and detecting bugs, AI is bringing about impactful productivity gains for enterprises of every scale. A Forbes report states that AI technology is expected to show an annual growth rate of 37.3% from 2023 to 2030 across industries.

Millions of developers have already been using GitHub Copilot for automated code generation. And manual processes such as using Stack Overflow to find relevant code have always been around. But ChatGPT has been the game changer.

ChatGPT's Dominance

01 **Faster development. Similar quality.**

ChatGPT can automate certain aspects of app development, such as generating **boilerplate code** or providing suggestions. However, developers are still crucial for **designing user interfaces**, implementing business logic, and ensuring quality.

02 **Personalized Experience**

By leveraging ChatGPT's language generation capabilities, developers can integrate natural language interfaces, chatbots, or conversational features within their mobile apps. This can enhance user engagement and provide personalized experiences.

03 **Code Generation Simplified**

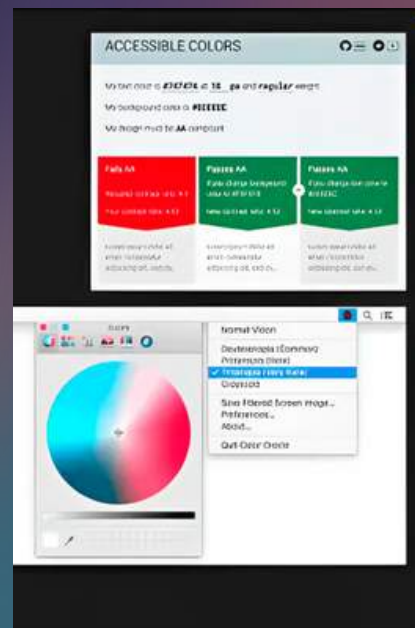
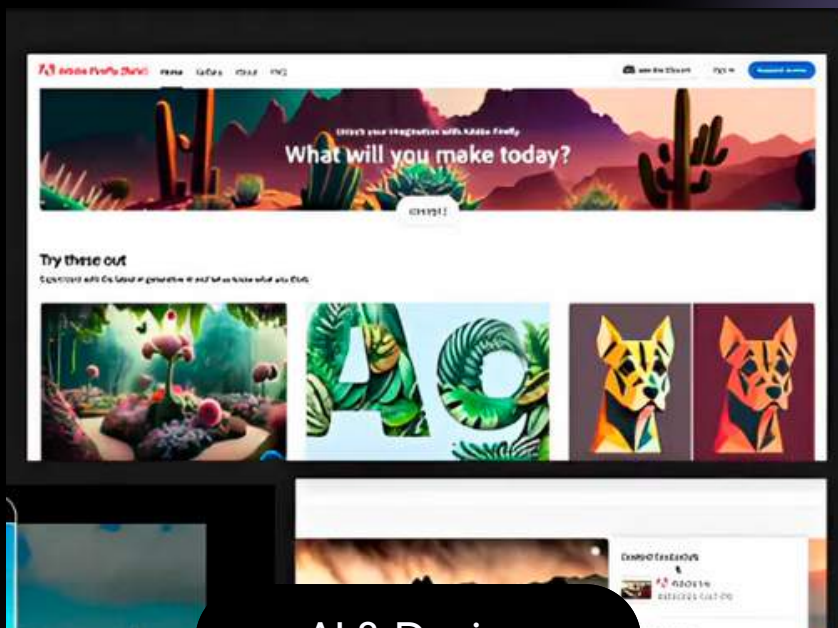
These tools assist developers by utilizing code from training data. Generative AI integrated into low code-no-code tools will simplify the app-building process for non-developers.

AI in the Design Process

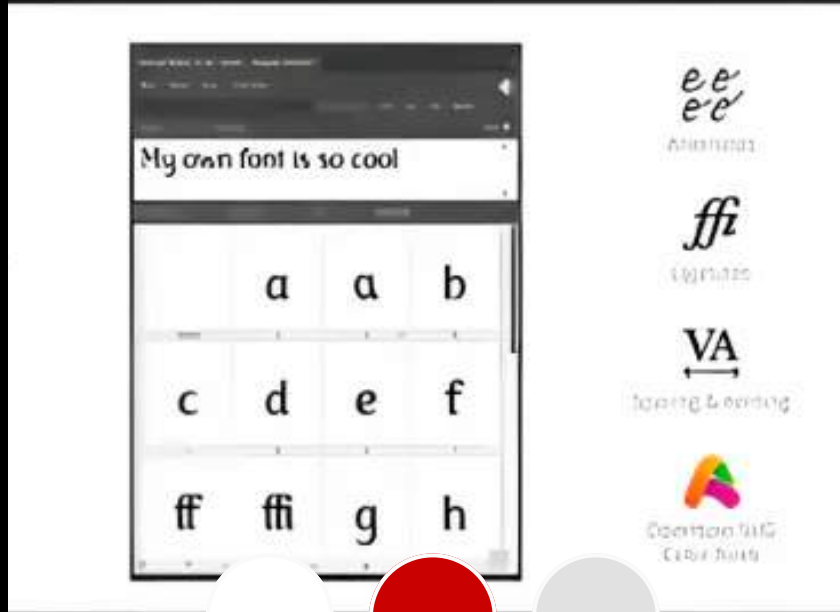
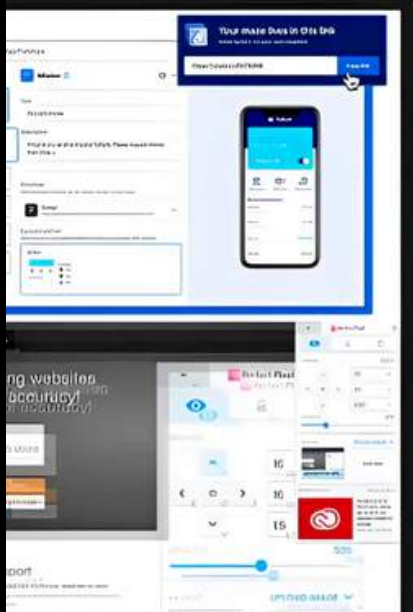
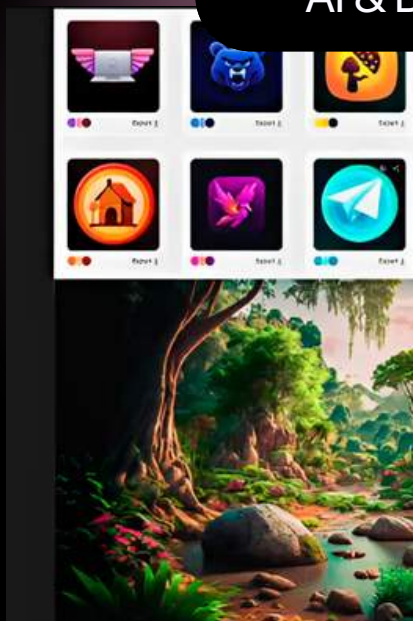
AI can be a valuable asset to designers. It simplifies repetitive tasks like resizing images, creating color palettes, and formatting text.

Today, everyone uses AI for these activities to an extent. This frees up designers to concentrate on more creative work — brainstorming ideas, exploring different design options, and experimenting with new techniques. This means that time savings and productivity need not be the main concern of a modern design team. Using automated tools, you can easily generate stunning images based on your prompts. The most popular image generation tools at the moment are Stable Diffusion, Midjourney, Image Creator, DALL-E, and Iconiffyai.

To crop and resize images, Smart Crop by Cloudinary, ImResizer, Imagekit, and Thumbor are available. These tools can also handle videos while providing responsive layouts. For color and design elements identification, tools like Adobe Color, Color Mind, Chroma, Pallet, Generator by Material Color, Hunt Peculiar, and Colorized use state-of-the-art AI algorithms to provide stellar results. They can detect dominant colors and create a color palette.



AI & Design



Challenges & Solutions

Challenge One

Data Privacy and Security Concerns

SOLUTION

Since AI models are trained on huge data sets, there are some concerns about the source and sensitivity of this data.

To ensure that data privacy is maintained and sensitive information does not get misused, AI-generated data and codes should comply with legal and ethical regulations to protect user trust. The data used for training AI models should have a proper permissive usage license.

Challenge Two

Ethical Considerations & Biases

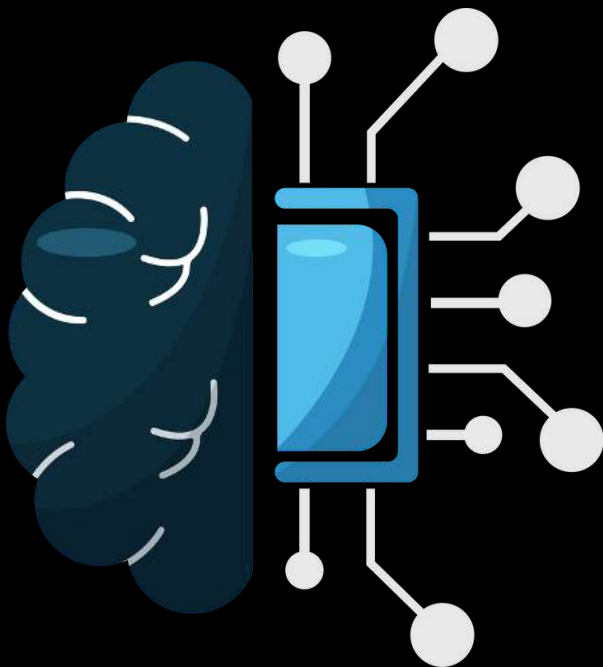
SOLUTION

AI-generated information may be unintentionally biased and may sometimes show a lack of transparency and fairness.

A workaround to the ethical issues would be training AI models on diverse datasets and monitoring them regularly for biases. Remember that the quality of data produced by AI is only as good as the data it is fed.

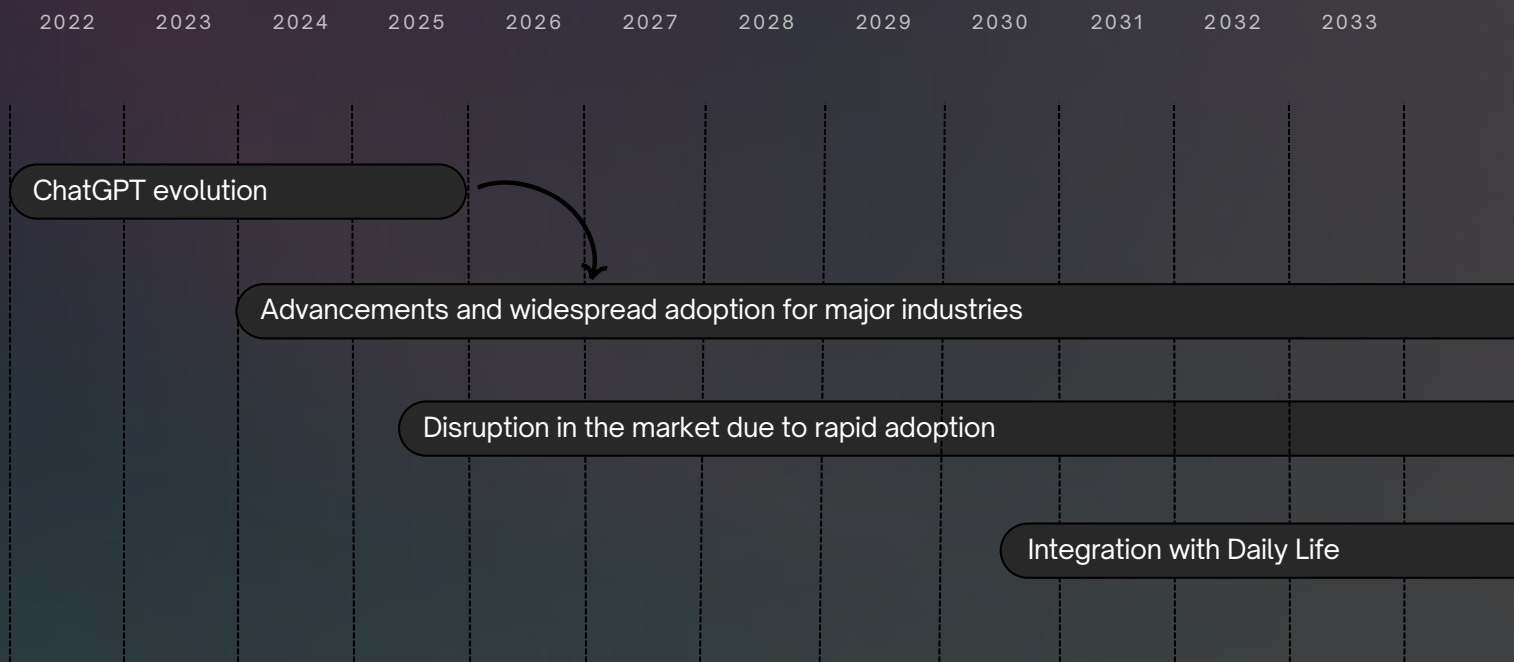
The Missing Human Touch

As far as creativity, critical and intuitive thinking and experienced decisions are concerned, humans are still ahead by leaps and bounds.



- Even integrating AI into software development processes requires specialized knowledge and skills and being very open to new ways of working.
- Building a smooth collaborative experience between developers and AI-powered tools is necessary. Rather than replacing human skills, AI-enabled assistance augments our decision-making capabilities and quickly produces high-quality results.
- Companies can collaborate with experienced AI development partners specializing in AI implementation, ensure robust data privacy measures and ethical AI development practices, and provide access to skilled AI professionals.

New Horizons



The convergence of human and AI capabilities has opened up a vast array of possibilities when it comes to software development. With **AI advancements, developers can create applications** that are better, smarter, and more efficient than ever before while also reducing the learning curve for both new and experienced developers.

It is crucial to address the limitations of ChatGPT, such as the potential for generating incorrect or inappropriate content. Proper moderation mechanisms and fact-checking processes can help mitigate these risks and ensure a safe and reliable user experience.

Leverage the Power of AI

GeekyAnts specializes in creating AI-powered workflows and application based on business goals. Speak to our experts today.

For more details, visit: www.geekyants.com

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